

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100819\
 Data File : VW013490.D
 Acq On : 08 Oct 2019 16:45
 Operator : SY/VA
 Sample : K5111-02 5PPBL00
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 4:10:06 PM

Quant Time: Oct 09 05:56:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 05:37:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	343213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	495753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	432455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	218988	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	132116	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
35) Dibromofluoromethane	7.88	113	135893	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
50) Toluene-d8	10.32	98	563976	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
62) 4-Bromofluorobenzene	12.62	95	191635	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	6488	5.707	ug/l	98
3) Chloromethane	2.20	50	12575	6.293	ug/l	90
4) Vinyl Chloride	2.36	62	16017	5.434	ug/l	98
5) Bromomethane	2.77	94	10183	5.790	ug/l	100
6) Chloroethane	2.92	64	9043	5.463	ug/l #	86
7) Trichlorofluoromethane	3.25	101	6870	4.926	ug/l	98
8) Diethyl Ether	3.68	74	8394	5.815	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.06	101	15455	5.377	ug/l	98
10) Methyl Iodide	4.27	142	25136	5.523	ug/l	99
11) Tert butyl alcohol	5.18	59	5754m	25.645	ug/l	
12) 1,1-Dichloroethene	4.04	96	15999	5.371	ug/l	96
13) Acrolein	3.89	56	1479	6.842	ug/l	86
14) Allyl chloride	4.67	41	23464	5.126	ug/l	98
15) Acrylonitrile	5.36	53	16826	24.940	ug/l	99
16) Acetone	4.14	43	15120	24.503	ug/l	99
17) Carbon Disulfide	4.38	76	44594	5.333	ug/l	99
18) Methyl Acetate	4.68	43	10599	5.996	ug/l	100
19) Methyl tert-butyl Ether	5.43	73	24478	5.434	ug/l	99
20) Methylene Chloride	4.92	84	25709	7.568	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	16800	5.308	ug/l #	82
22) Diisopropyl ether	6.31	45	47911	5.586	ug/l	97
23) Vinyl Acetate	6.26	43	123220	23.930	ug/l	98
24) 1,1-Dichloroethane	6.22	63	29368	5.602	ug/l	98
25) 2-Butanone	7.17	43	23925	26.309	ug/l	94
26) 2,2-Dichloropropane	7.16	77	20756	6.142	ug/l	92
27) cis-1,2-Dichloroethene	7.17	96	18657	5.570	ug/l	92
28) Bromochloromethane	7.51	49	10043	5.372	ug/l #	100
29) Tetrahydrofuran	7.54	42	13882	24.976	ug/l	96
30) Chloroform	7.68	83	29453	5.808	ug/l	96
31) Cyclohexane	7.95	56	32960	5.940	ug/l #	79
32) 1,1,1-Trichloroethane	7.88	97	23112	5.607	ug/l	94
36) 1,1-Dichloropropene	8.08	75	23319	5.200	ug/l	97
37) Ethyl Acetate	7.25	43	11218	5.513	ug/l	99
38) Carbon Tetrachloride	8.07	117	21431	5.391	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.33	83	31188	5.368	ug/l	94
40) Benzene	8.32	78	68560	5.477	ug/l	100
41) Methacrylonitrile	7.49	41	5944	5.137	ug/l #	83
42) 1,2-Dichloroethane	8.40	62	17324	5.475	ug/l	96
43) Isopropyl Acetate	8.43	43	19576	5.325	ug/l	98
44) Trichloroethene	9.09	130	19300	5.404	ug/l	97
45) 1,2-Dichloropropane	9.37	63	16219	5.398	ug/l	91
46) Dibromomethane	9.46	93	8109	5.417	ug/l	98
47) Bromodichloromethane	9.65	83	20222	5.434	ug/l	98
48) Methyl methacrylate	9.43	41	8677	4.792	ug/l	97
49) 1,4-Dioxane	9.47	88	2644	100.593	ug/l #	95
51) 4-Methyl-2-Pentanone	10.21	43	50124	25.935	ug/l	99
52) Toluene	10.38	92	43256	5.364	ug/l	96
53) t-1,3-Dichloropropene	10.60	75	19743	5.106	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	25293	5.399	ug/l	95
55) 1,1,2-Trichloroethane	10.79	97	12434	5.534	ug/l	98
56) Ethyl methacrylate	10.65	69	14033	4.637	ug/l	94
57) 1,3-Dichloropropane	10.93	76	20896	5.416	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.92	63	33226	23.273	ug/l	98
59) 2-Hexanone	10.97	43	29920	22.576	ug/l	95
60) Dibromochloromethane	11.13	129	13816	5.347	ug/l	99
61) 1,2-Dibromoethane	11.24	107	11636	5.445	ug/l	94
64) Tetrachloroethene	10.87	164	17387	5.463	ug/l	93
65) Chlorobenzene	11.66	112	48451	5.638	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	15516	5.198	ug/l	99
67) Ethyl Benzene	11.73	91	84761	5.397	ug/l	99
68) m/p-Xylenes	11.84	106	63167	10.570	ug/l	98
69) o-Xylene	12.16	106	29212	5.291	ug/l	99
70) Styrene	12.18	104	49717	5.245	ug/l	99
71) Bromoform	12.35	173	8144	4.973	ug/l #	97
73) Isopropylbenzene	12.46	105	81027	5.165	ug/l	100
74) N-amyl acetate	12.27	43	16132	4.702	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	14088	5.269	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	8552m	4.689	ug/l	
77) Bromobenzene	12.74	156	20017	5.384	ug/l	100
78) n-propylbenzene	12.80	91	93201	5.138	ug/l	98
79) 2-Chlorotoluene	12.89	91	53864	5.300	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	68445	5.251	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.52	75	3932	4.407	ug/l	96
82) 4-Chlorotoluene	12.99	91	55719	5.283	ug/l	99
83) tert-Butylbenzene	13.21	119	60908	5.262	ug/l	97
84) 1,2,4-Trimethylbenzene	13.25	105	67605	5.245	ug/l	98
85) sec-Butylbenzene	13.38	105	83648	5.230	ug/l	99
86) p-Isopropyltoluene	13.50	119	76784	5.225	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	39720	5.634	ug/l	97
88) 1,4-Dichlorobenzene	13.58	146	38399	5.560	ug/l	95
89) n-Butylbenzene	13.82	91	68159	5.135	ug/l	99
90) Hexachloroethane	14.09	117	12894	5.128	ug/l	94
91) 1,2-Dichlorobenzene	13.87	146	32594	5.236	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.49	75	2194	5.147	ug/l	85

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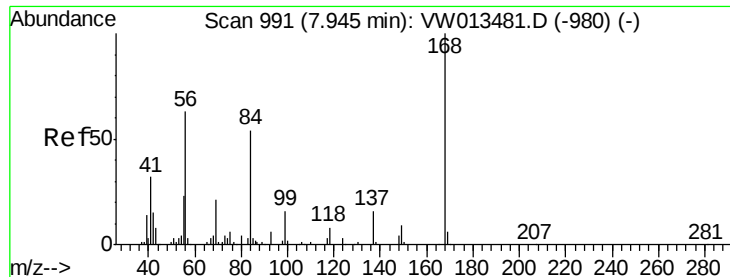
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	22717	5.164	ug/l	99
94) Hexachlorobutadiene	15.24	225	15897	5.438	ug/l	96
95) Naphthalene	15.36	128	33963	4.463	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	19643	5.106	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:168 Resp: 343213

Ion Ratio Lower Upper

168 100

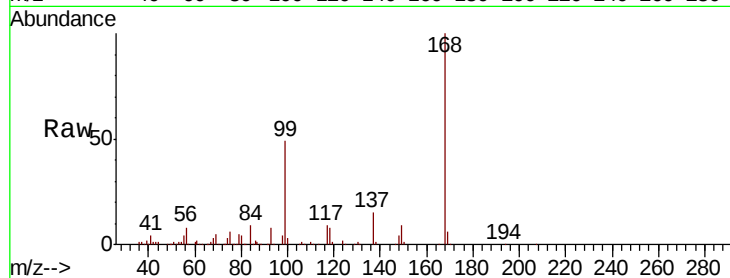
99 48.9 38.3 57.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

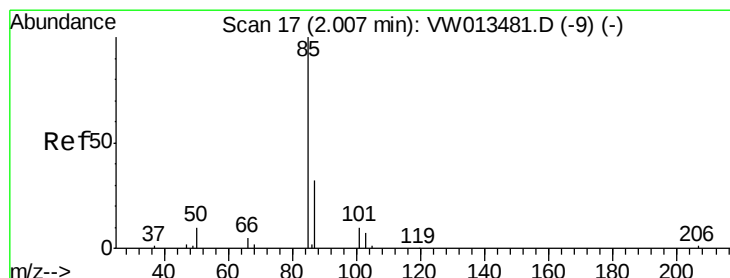
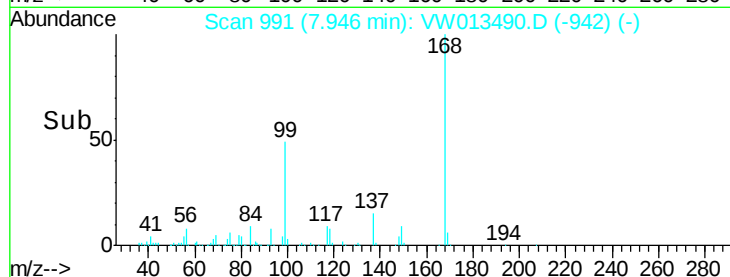
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 5.707 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013490.D

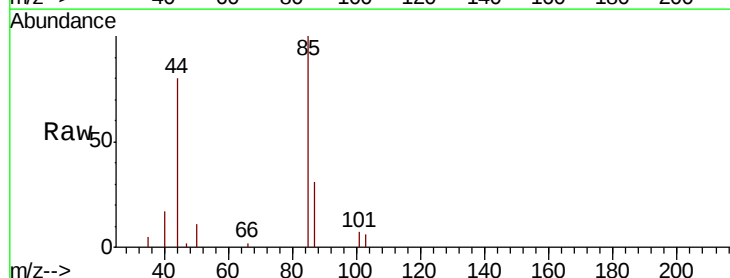
Acq: 08 Oct 2019 16:45

Tgt Ion: 85 Resp: 6488

Ion Ratio Lower Upper

85 100

87 30.5 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

3000

2500

2000

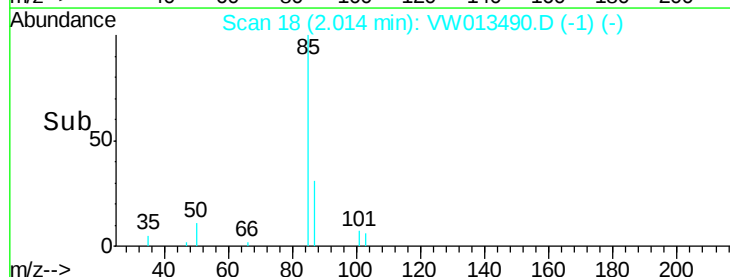
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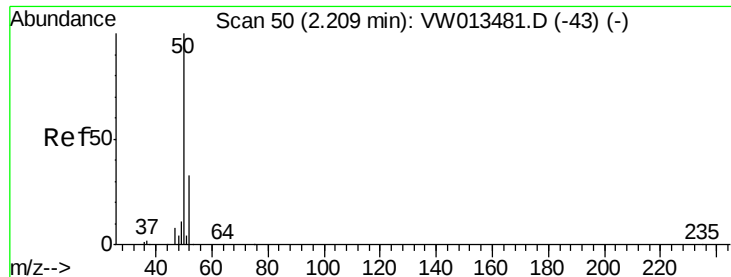
1000

500

0

Time-->





#3

Chloromethane

Concen: 6.293 ug/l

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 50 Resp: 12575

Ion Ratio Lower Upper

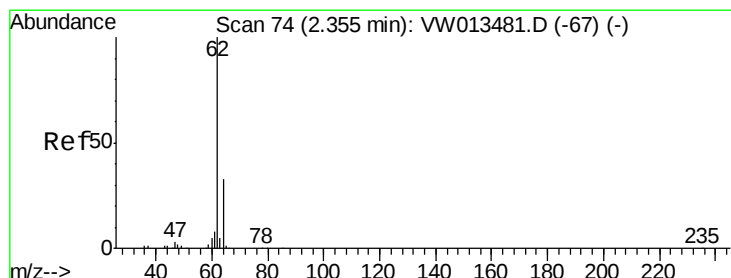
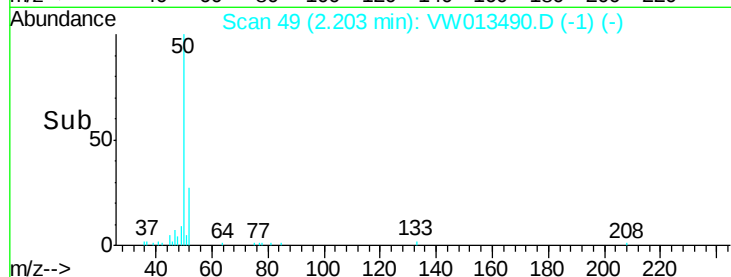
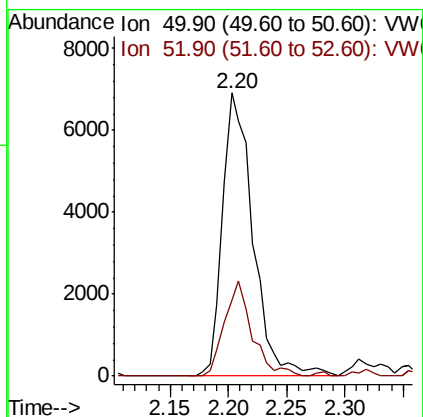
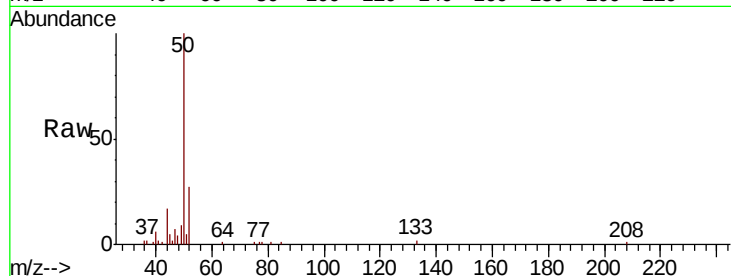
50 100

52 26.9 26.0 39.0

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#4

Vinyl Chloride

Concen: 5.434 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW013490.D

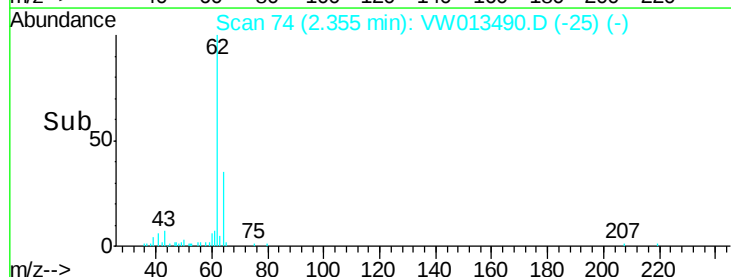
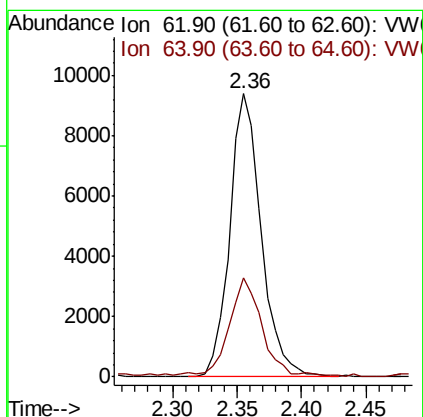
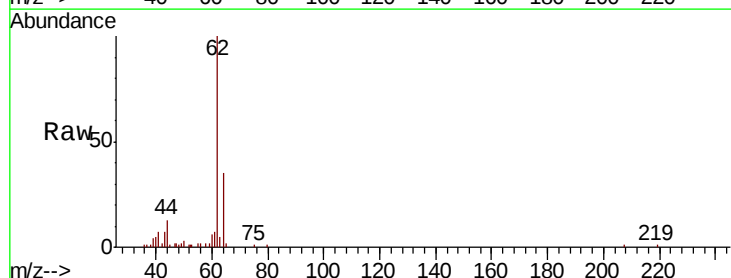
Acq: 08 Oct 2019 16:45

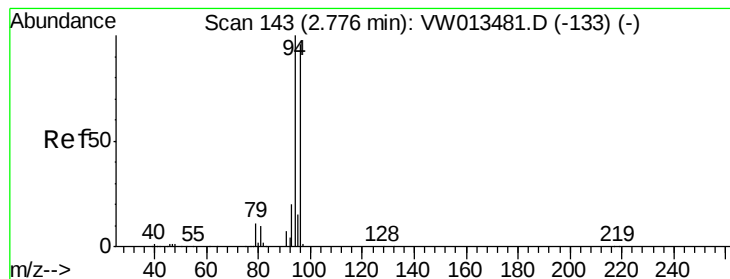
Tgt Ion: 62 Resp: 16017

Ion Ratio Lower Upper

62 100

64 34.1 26.6 39.8





#5

Bromomethane

Concen: 5.790 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 94 Resp: 10183

Ion Ratio Lower Upper

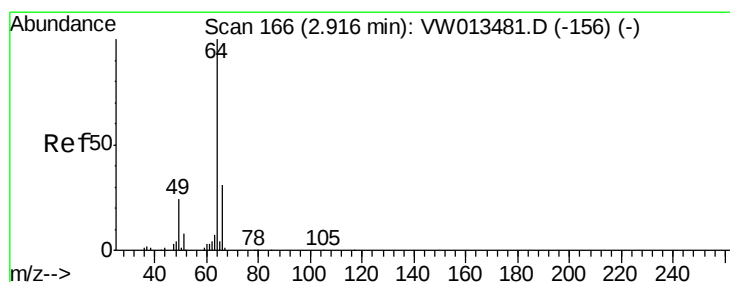
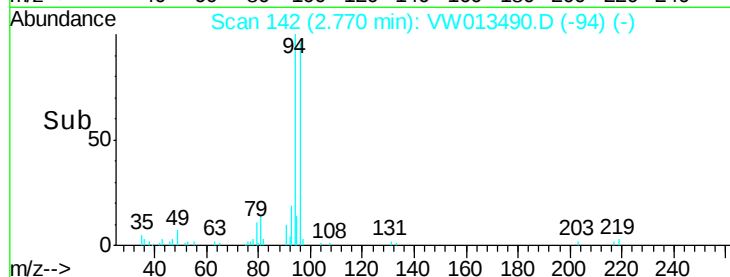
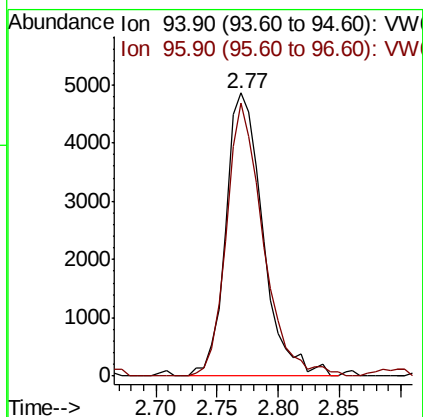
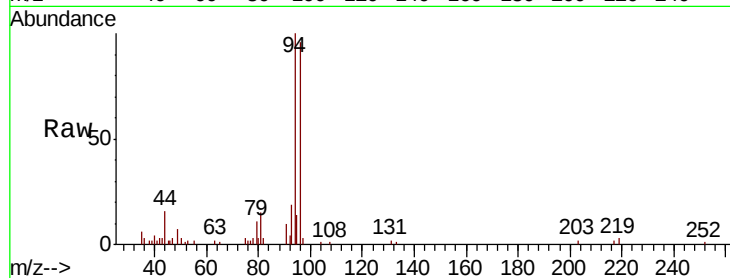
94 100

96 96.4 77.0 115.6

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#6

Chloroethane

Concen: 5.463 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW013490.D

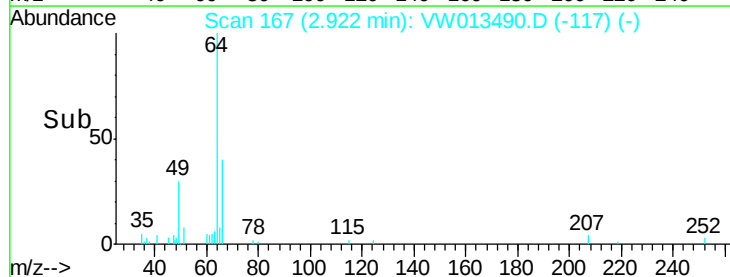
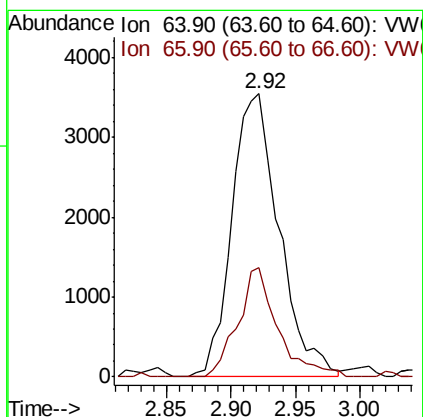
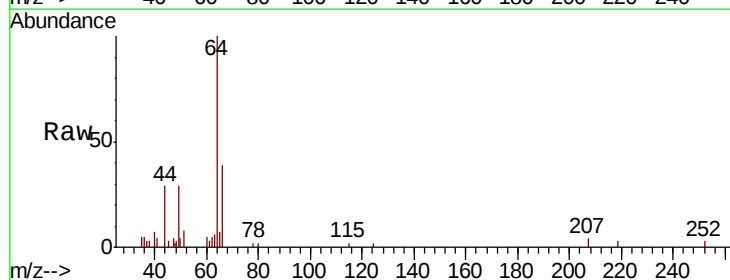
Acq: 08 Oct 2019 16:45

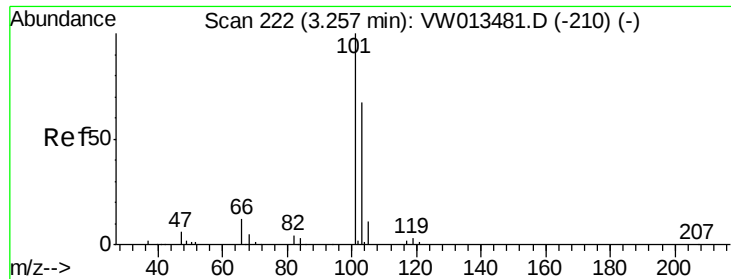
Tgt Ion: 64 Resp: 9043

Ion Ratio Lower Upper

64 100

66 38.8 25.0 37.4#





#7

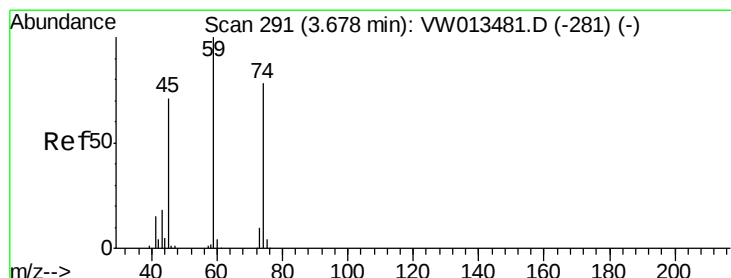
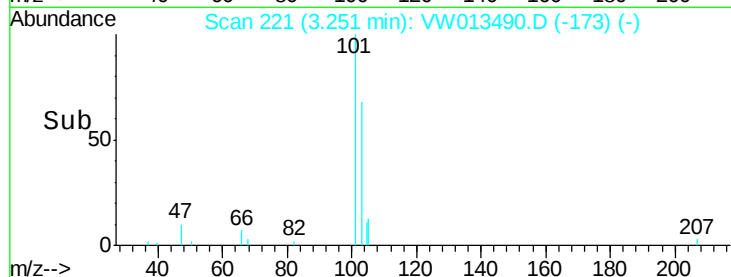
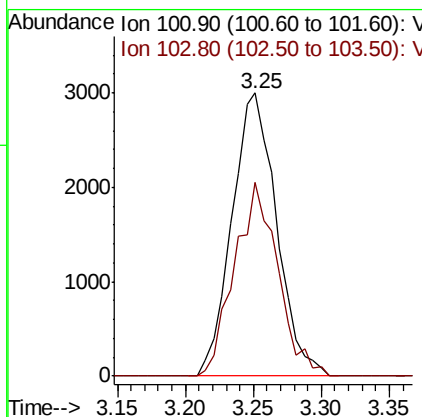
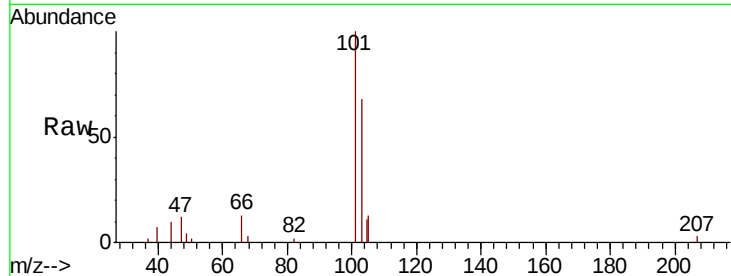
Trichlorofluoromethane
Concen: 4.926 ug/l
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
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ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.4	53.7	80.5

Manual Integrations
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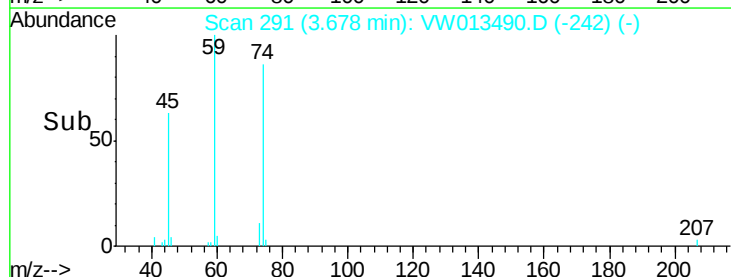
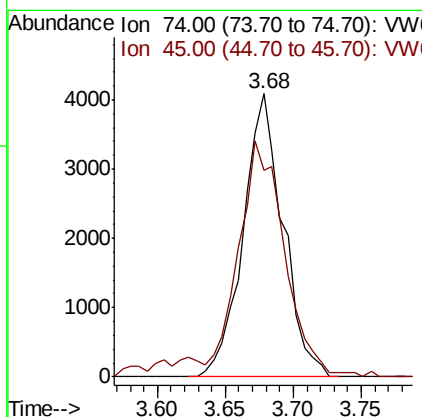
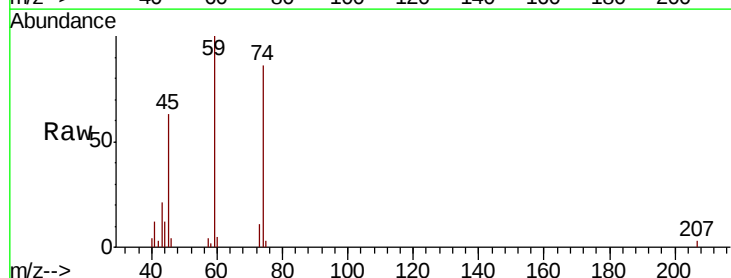
MMDadoda
10/9/2019 4:10:06 PM

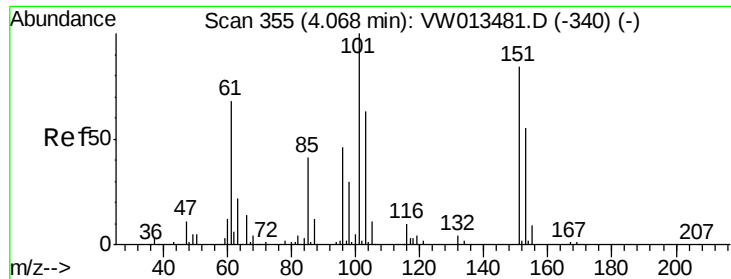


#8

Diethyl Ether
Concen: 5.815 ug/l
RT: 3.68 min Scan# 291
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.7	50.0	150.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.377 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

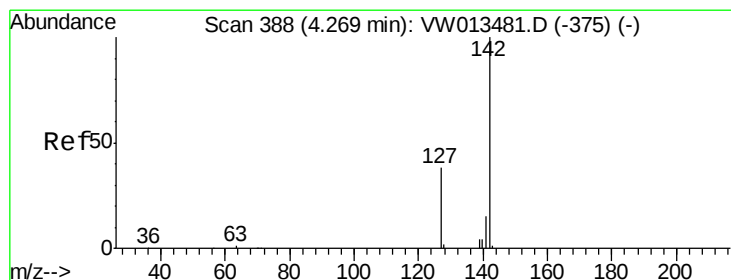
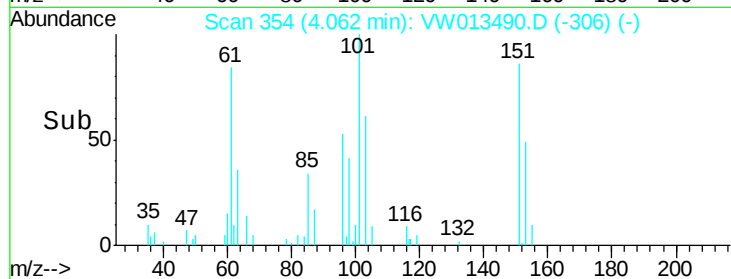
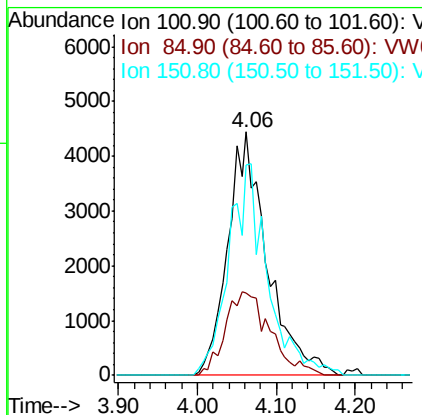
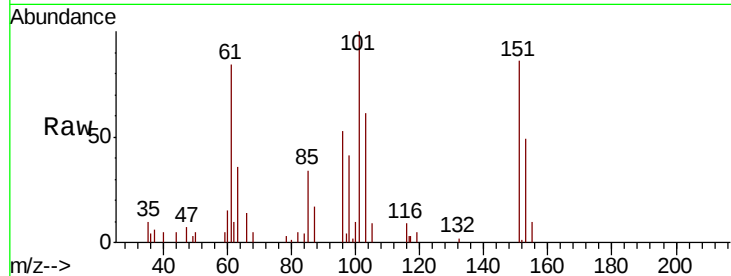
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	101	Resp:	15455
Ion Ratio	Lower	Upper	
101	100		
85	37.3	31.6	47.4
151	85.3	67.5	101.3

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#10

Methyl Iodide

Concen: 5.523 ug/l

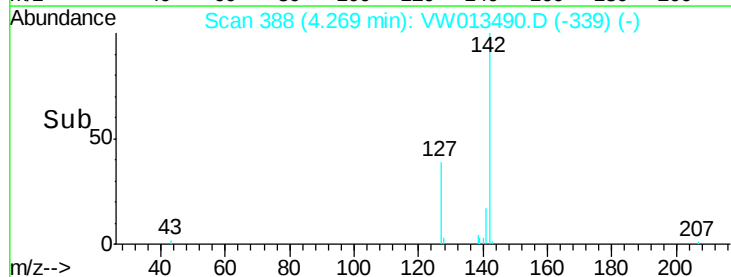
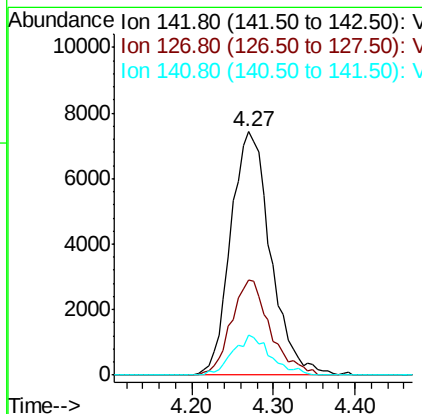
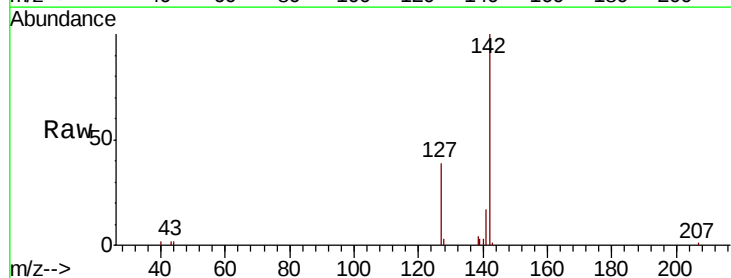
RT: 4.27 min Scan# 388

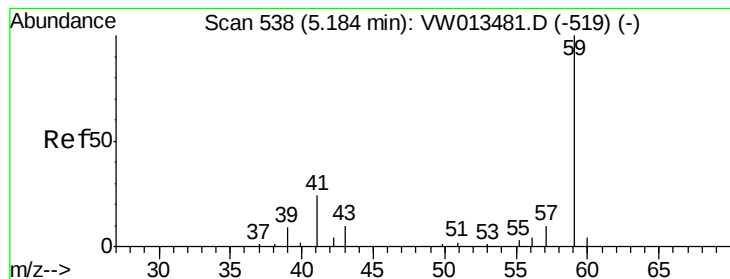
Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	142	Resp:	25136
Ion Ratio	Lower	Upper	
142	100		
127	37.9	29.6	44.4
141	15.4	12.1	18.1





#11

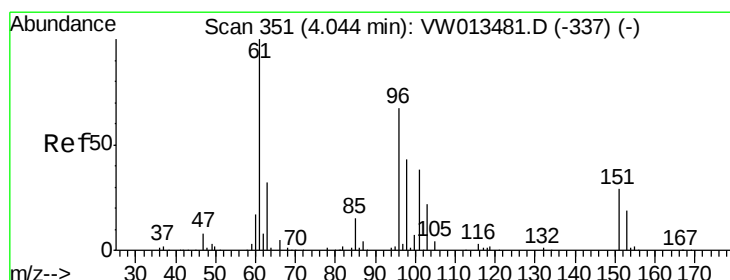
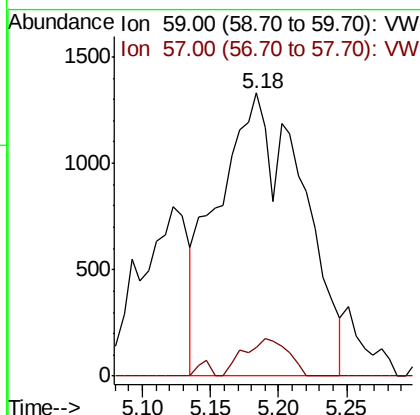
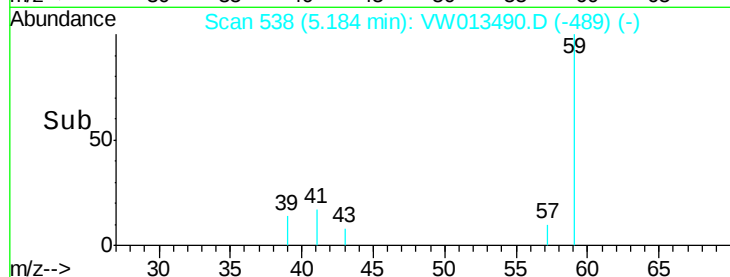
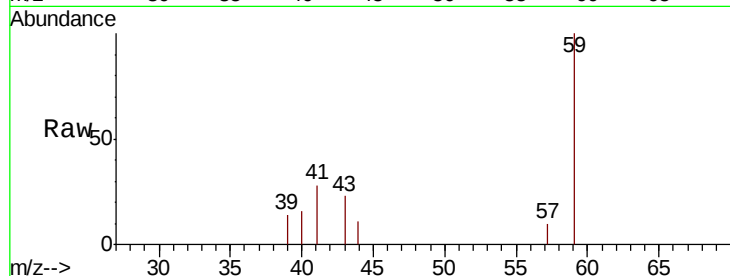
Tert butyl alcohol
 Concen: 25.645 ug/l m
 RT: 5.18 min Scan# 538
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.8	8.2	12.4#

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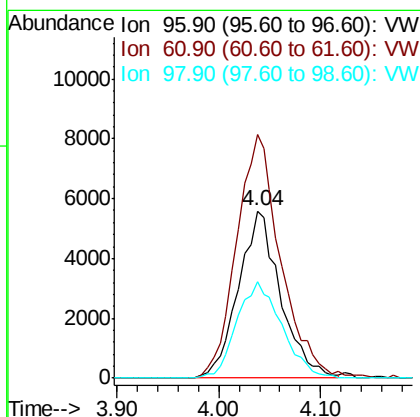
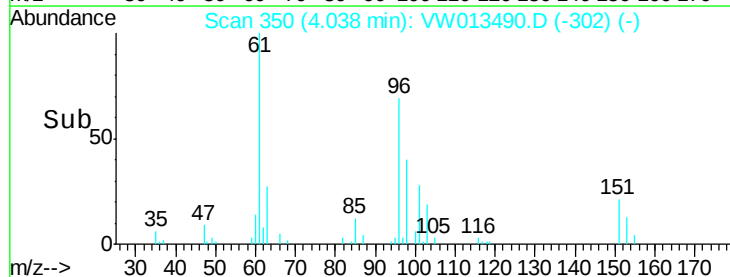
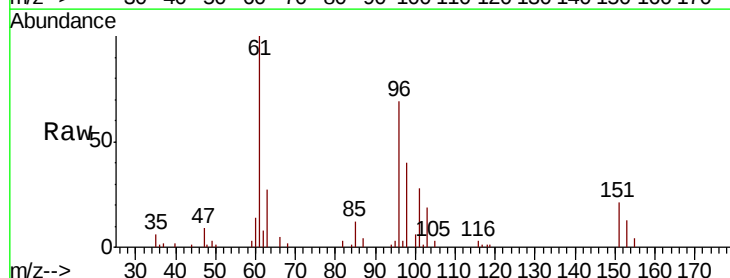
MMDadoda
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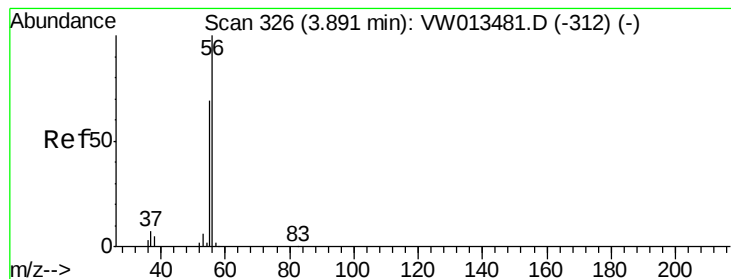


#12

1,1-Dichloroethene
 Concen: 5.371 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.8	119.4	179.0
98	58.0	51.1	76.7





#13

Acrolein

Concen: 6.842 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 56 Resp: 1479

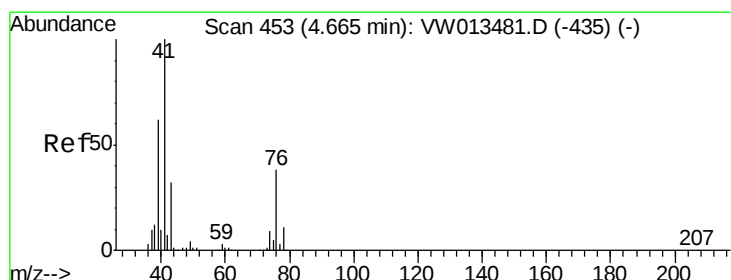
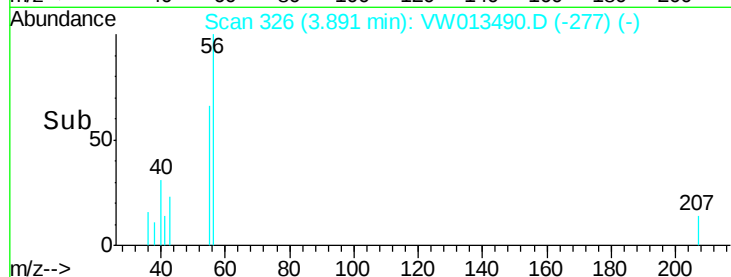
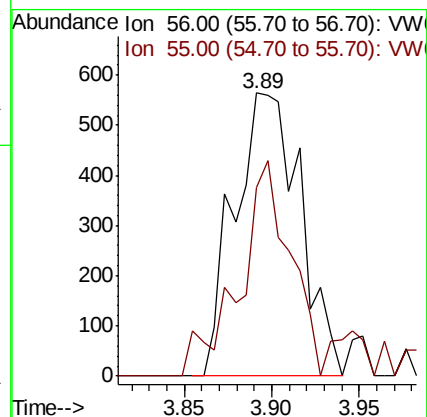
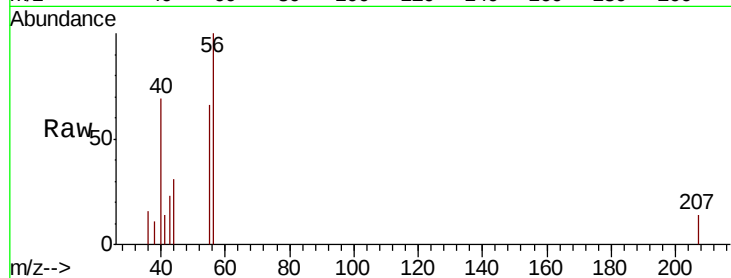
Ion Ratio Lower Upper

56 100

55 58.4 55.9 83.9

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#14

Allyl chloride

Concen: 5.126 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

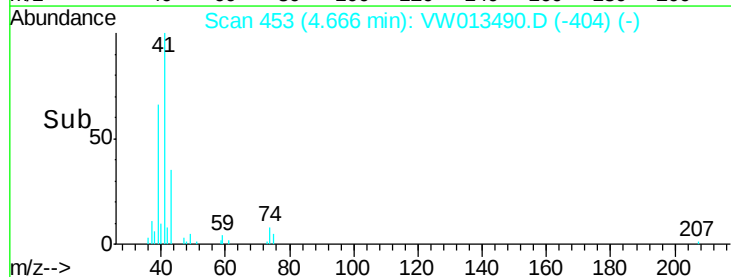
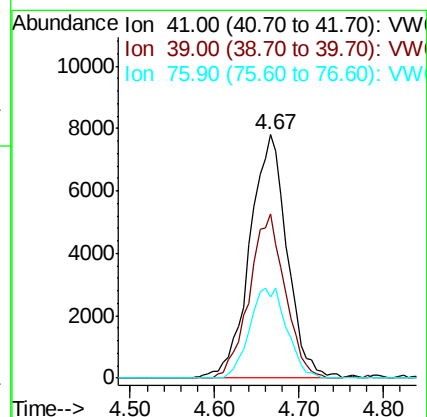
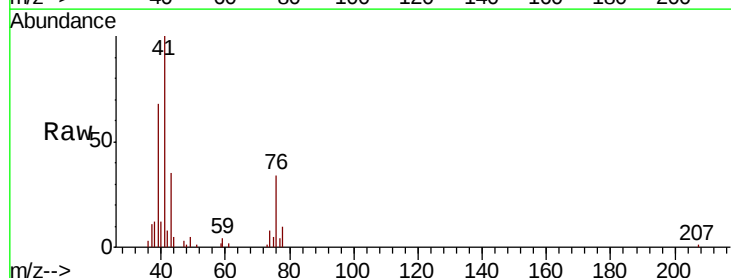
Tgt Ion: 41 Resp: 23464

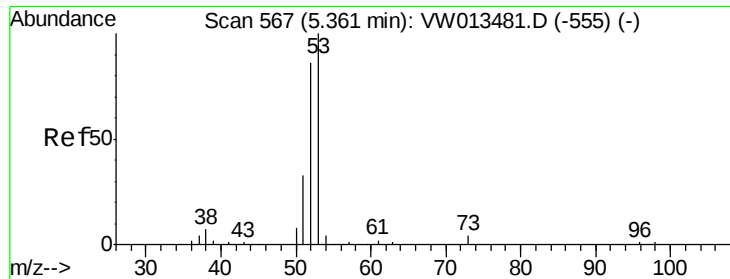
Ion Ratio Lower Upper

41 100

39 64.3 50.1 75.1

76 36.8 29.0 43.4





#15

Acrylonitrile

Concen: 24.940 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

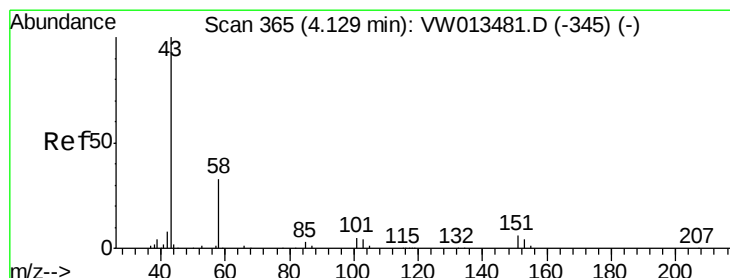
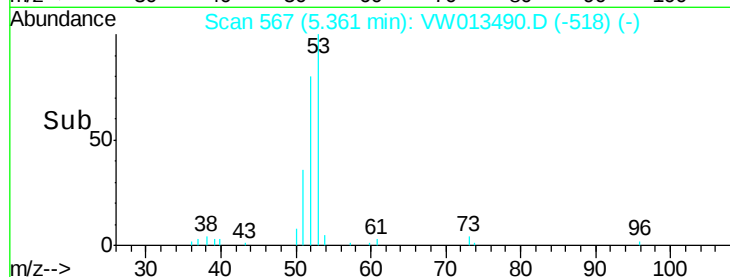
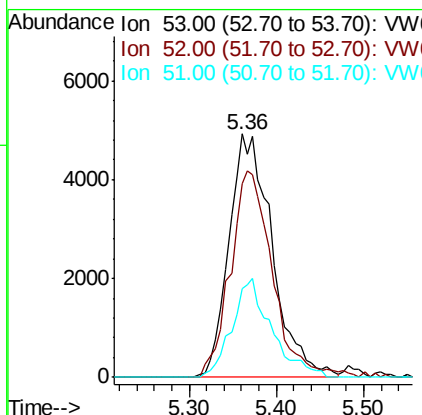
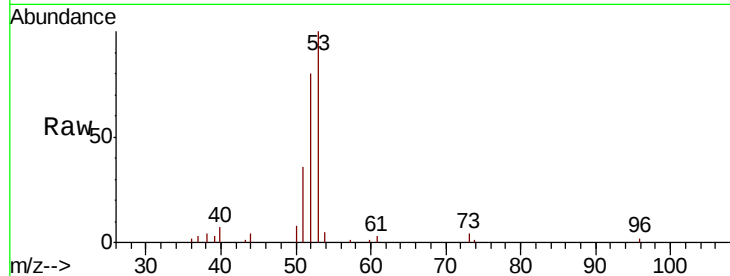
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	53	Resp:	16826
Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.8	98.8
51	37.3	28.6	42.8

Manual Integrations
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#16

Acetone

Concen: 24.503 ug/l

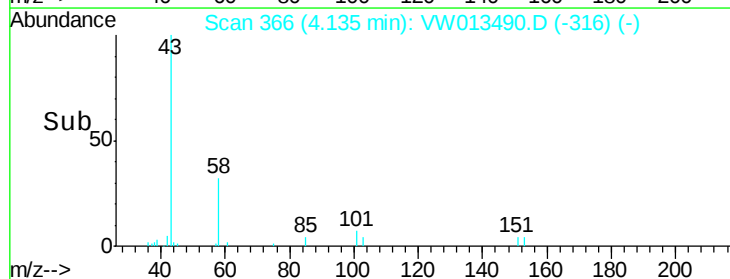
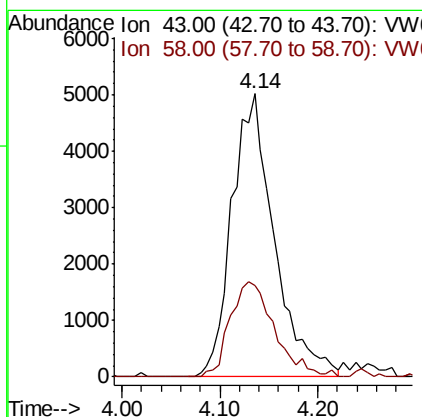
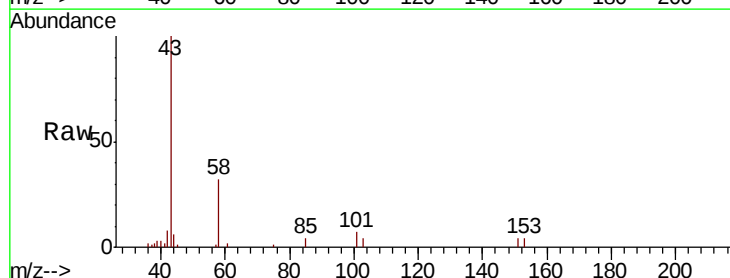
RT: 4.14 min Scan# 366

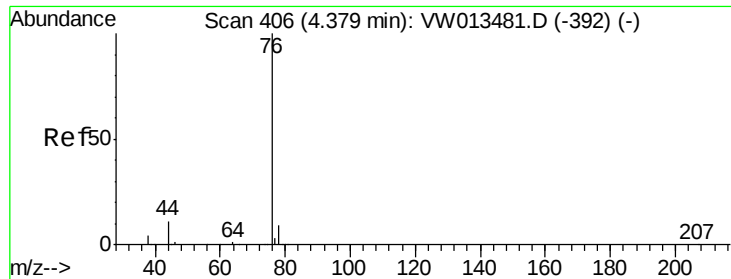
Delta R.T. 0.01 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	43	Resp:	15120
Ion	Ratio	Lower	Upper
43	100		
58	32.3	26.1	39.1





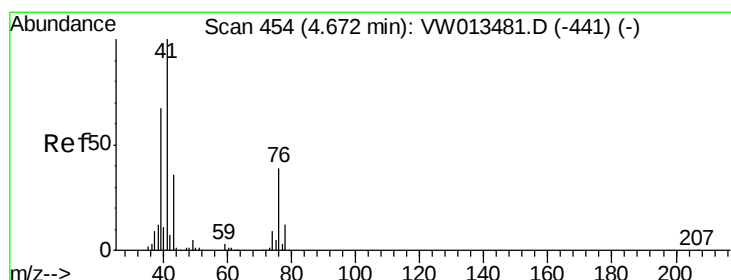
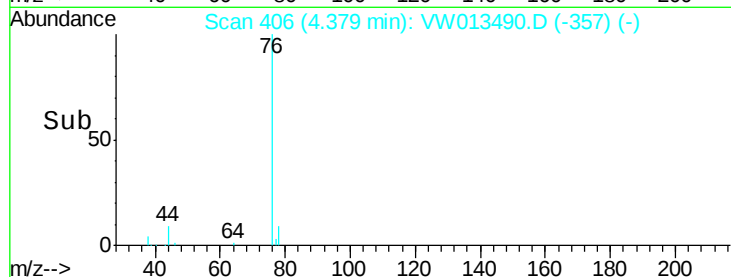
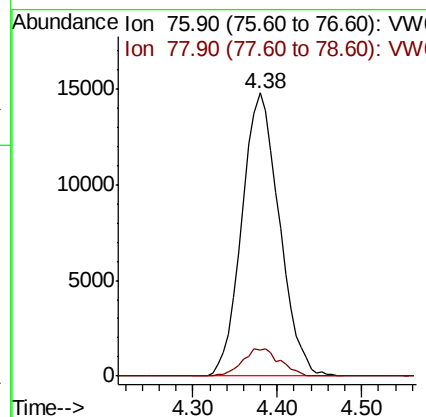
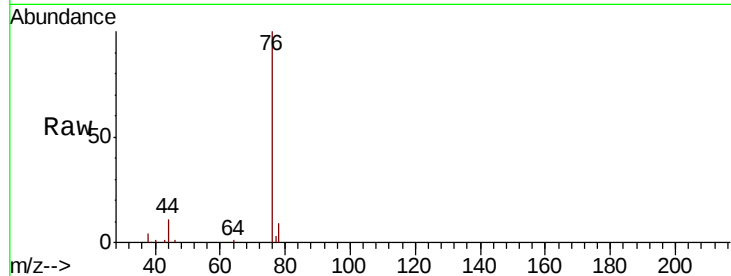
#17
Carbon Disulfide
Concen: 5.333 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.1	10.7

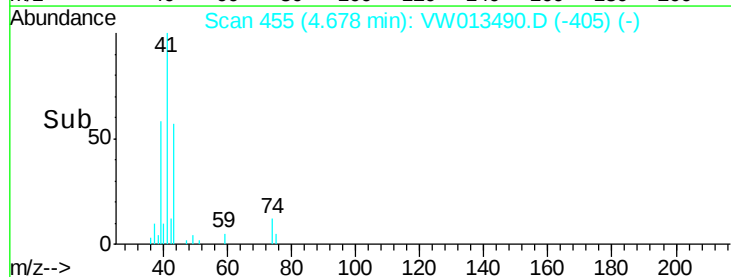
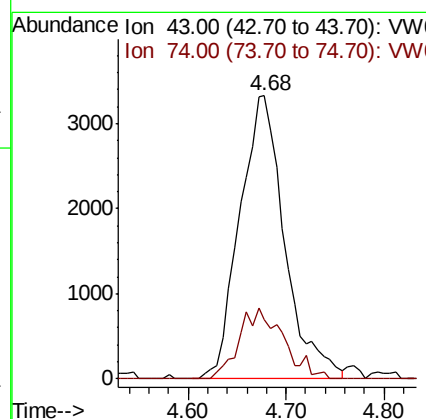
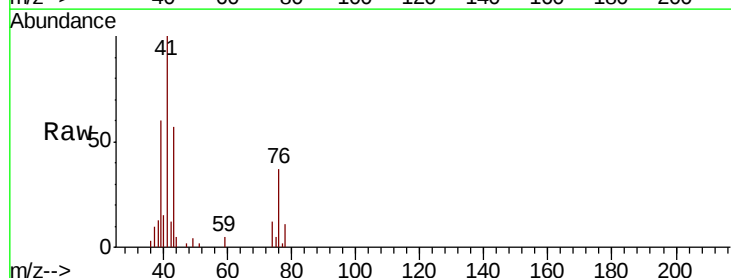
Manual Integrations
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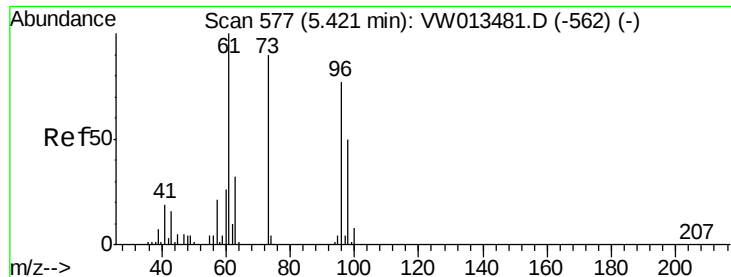
MMDadoda
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#18
Methyl Acetate
Concen: 5.996 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.6	19.6	29.4





#19

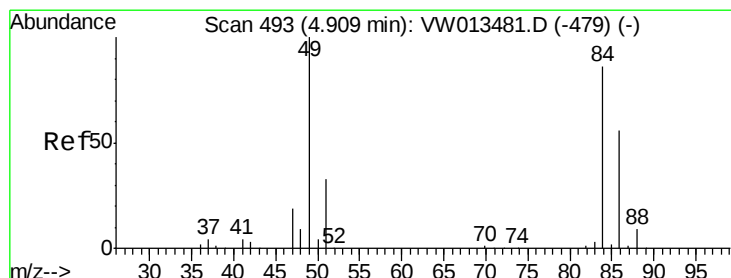
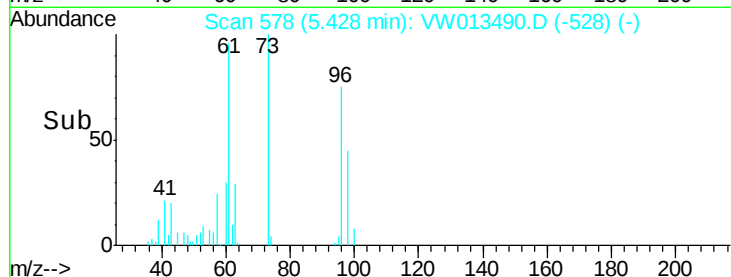
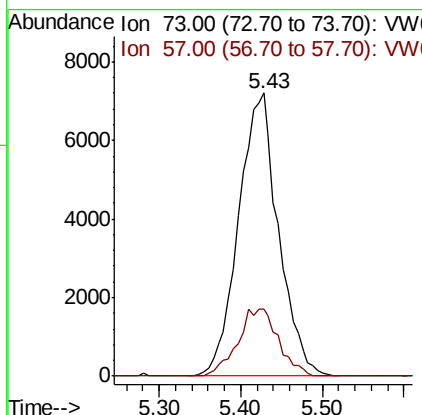
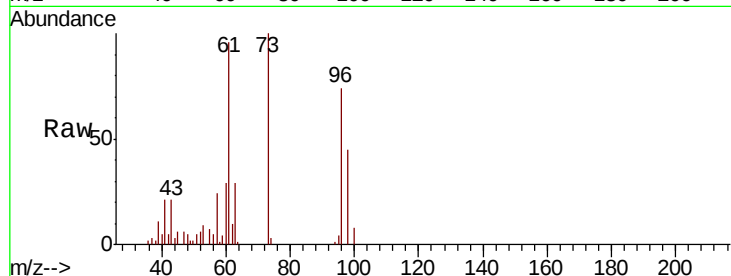
Methyl tert-butyl Ether
 Concen: 5.434 ug/l
 RT: 5.43 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion: 73 Resp: 24478
 Ion Ratio Lower Upper
 73 100
 57 23.6 18.6 27.8

Manual Integrations
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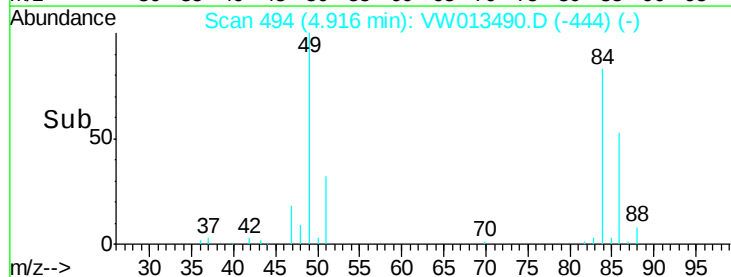
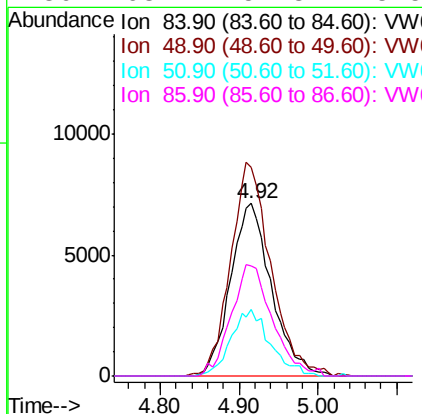
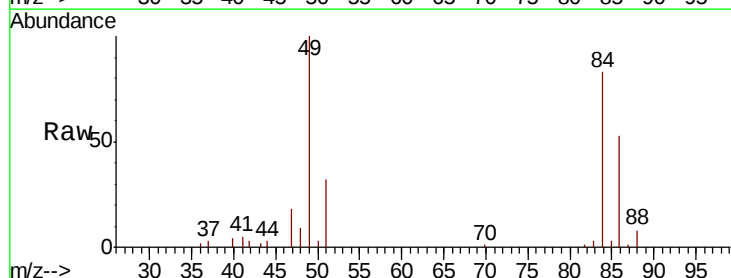
MMDadoda
 10/9/2019 4:10:06 PM

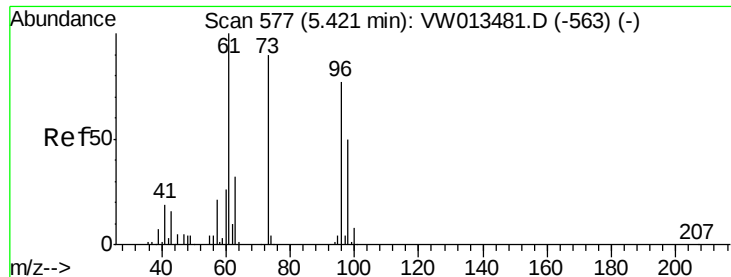


#20

Methylene Chloride
 Concen: 7.568 ug/l
 RT: 4.92 min Scan# 494
 Delta R.T. 0.01 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion: 84 Resp: 25709
 Ion Ratio Lower Upper
 84 100
 49 119.8 93.4 140.0
 51 38.7 30.6 46.0
 86 63.7 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 5.308 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

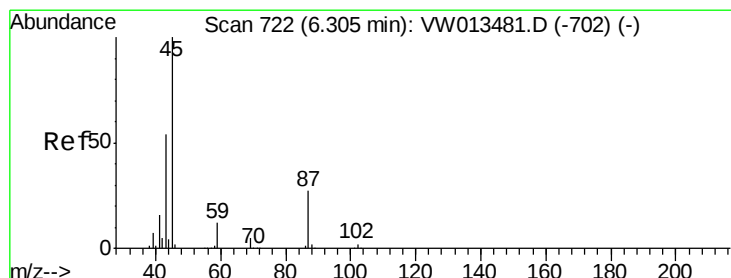
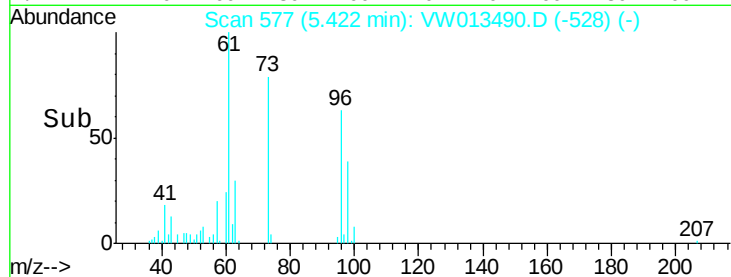
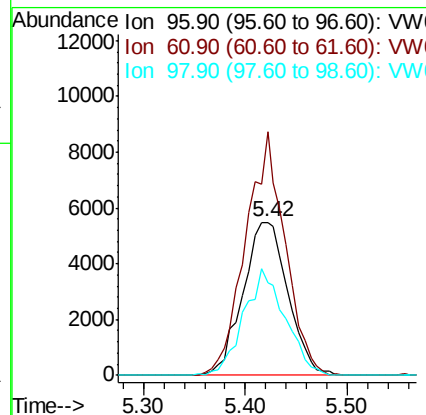
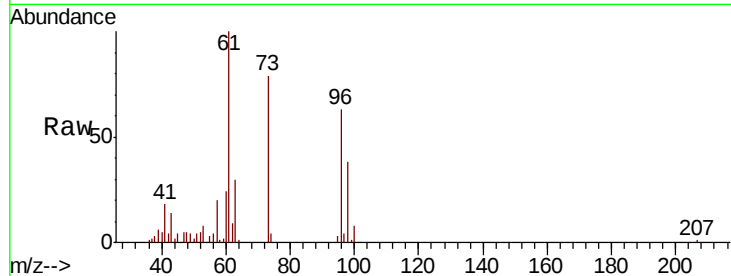
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	96	Resp:	16800
Ion	Ratio	Lower	Upper
96	100		
61	159.1	104.3	156.5#
98	60.9	51.8	77.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 5.586 ug/l

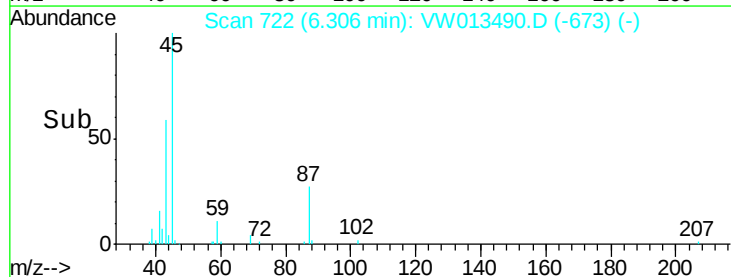
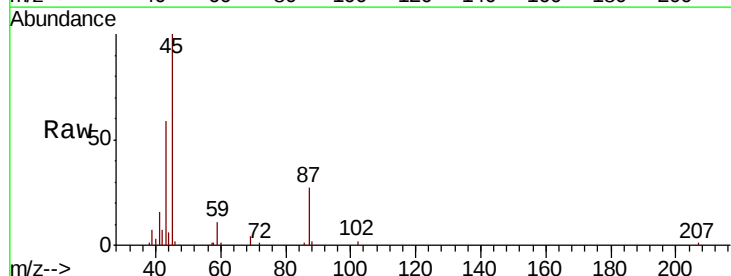
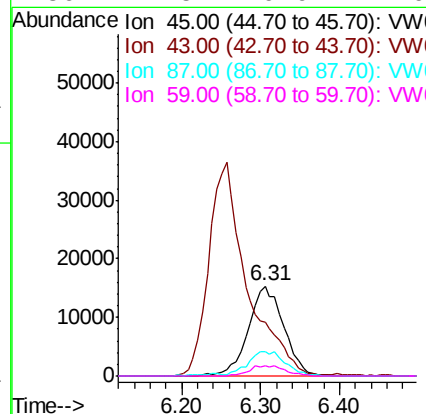
RT: 6.31 min Scan# 722

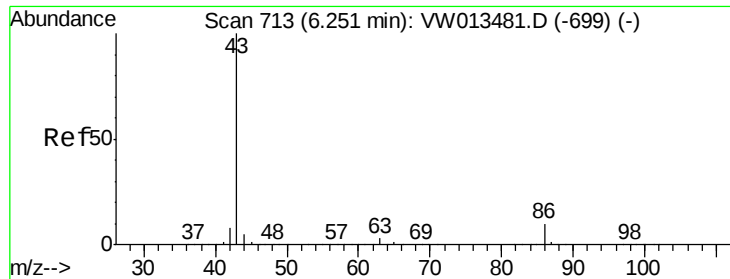
Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	45	Resp:	47911
Ion	Ratio	Lower	Upper
45	100		
43	56.9	43.4	65.0
87	27.3	22.1	33.1
59	11.5	9.9	14.9





#23

Vinyl Acetate

Concen: 23.930 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 123220

Ion Ratio Lower Upper

43 100

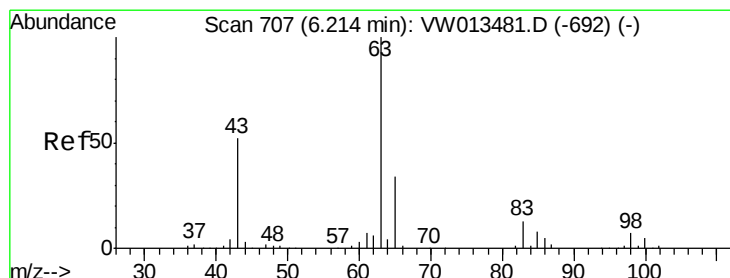
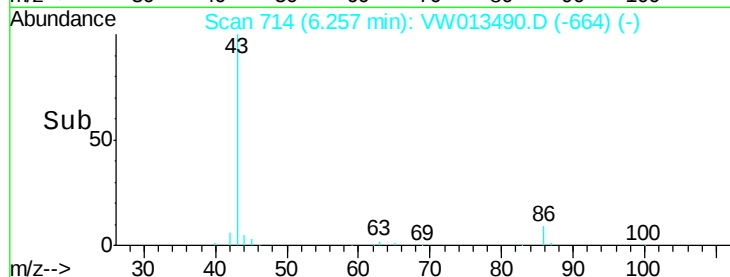
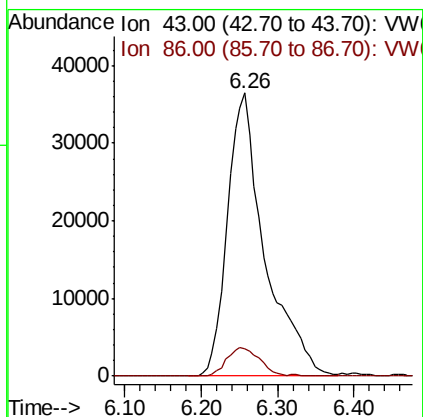
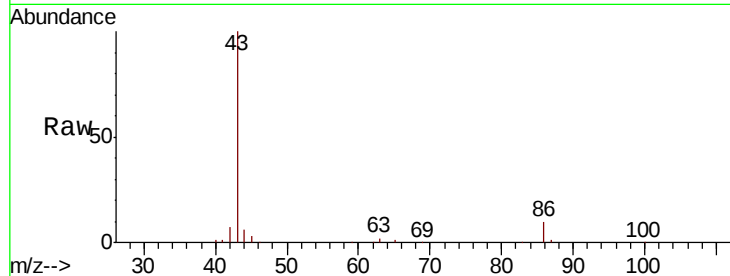
86 9.6 8.3 12.5

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 5.602 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

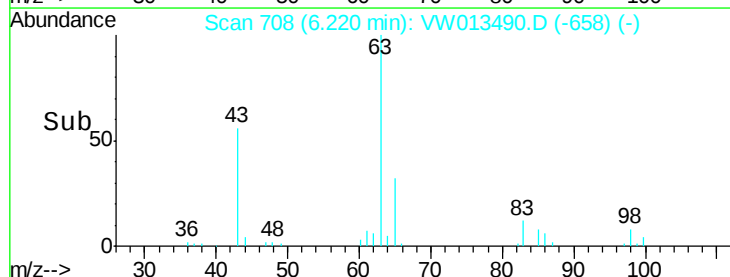
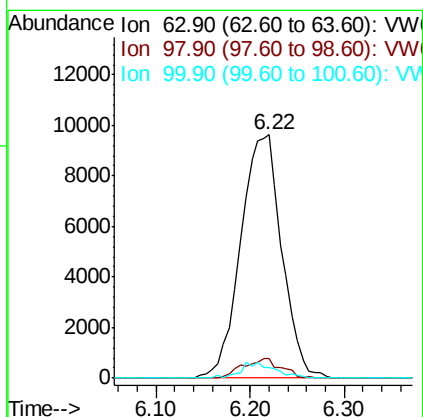
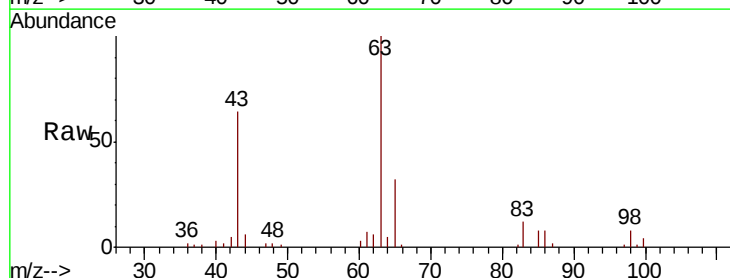
Tgt Ion: 63 Resp: 29368

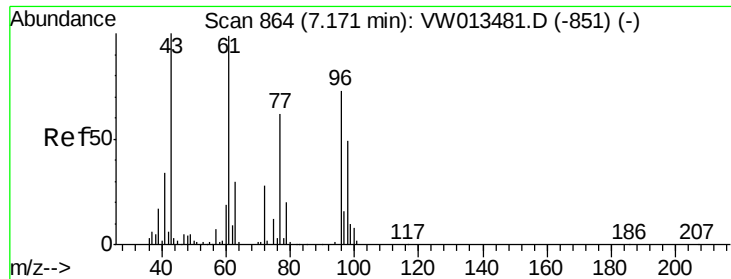
Ion Ratio Lower Upper

63 100

98 8.1 3.5 10.6

100 4.2 2.3 6.8





#25

2-Butanone

Concen: 26.309 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 23925

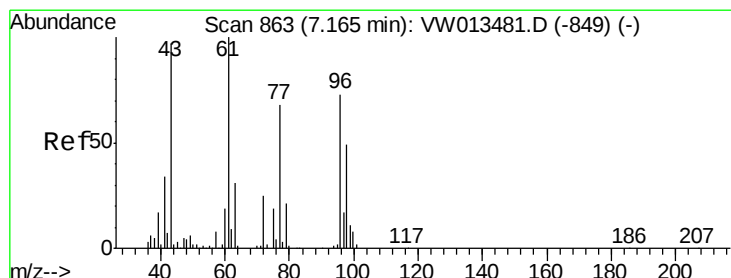
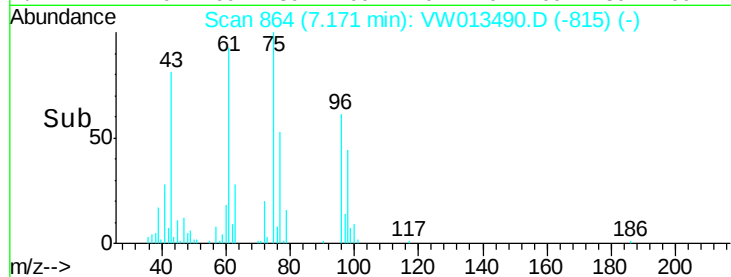
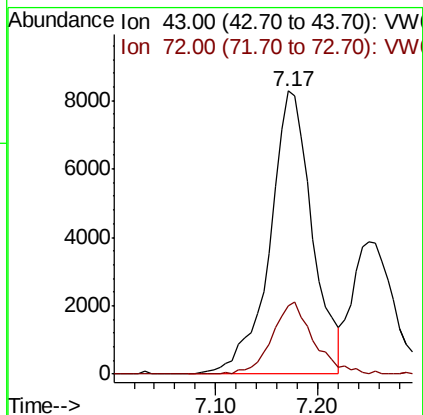
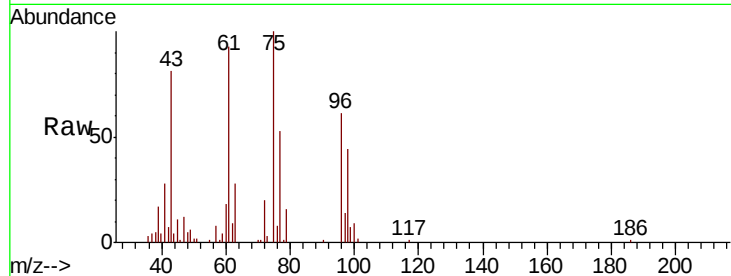
Ion Ratio Lower Upper

43 100

72 24.4 22.1 33.1

Manual Integrations
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#26

2,2-Dichloropropane

Concen: 6.142 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013490.D

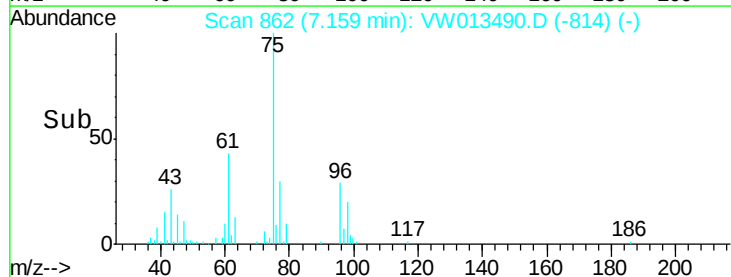
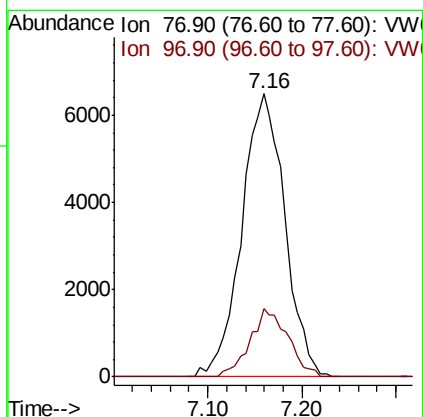
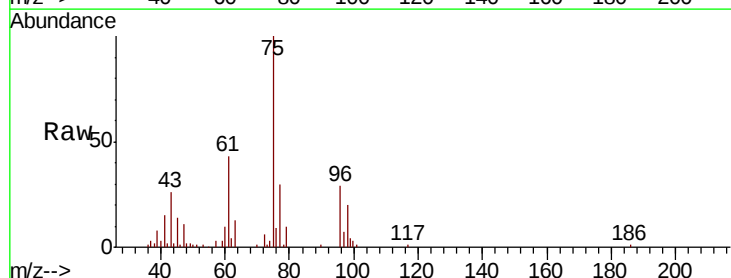
Acq: 08 Oct 2019 16:45

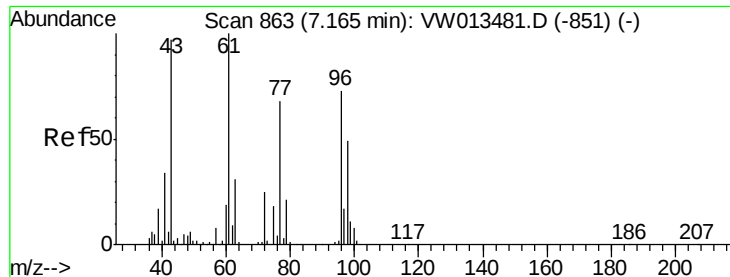
Tgt Ion: 77 Resp: 20756

Ion Ratio Lower Upper

77 100

97 21.3 12.6 37.6





#27

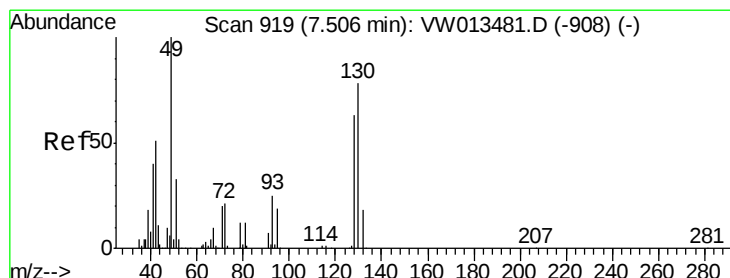
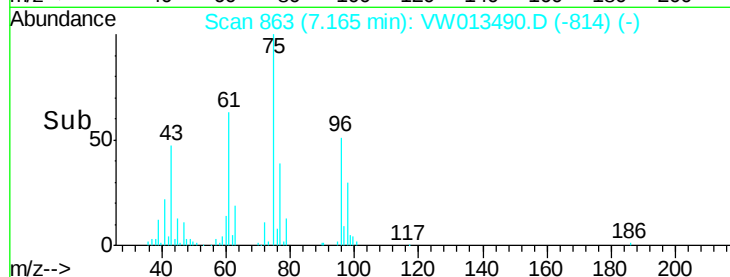
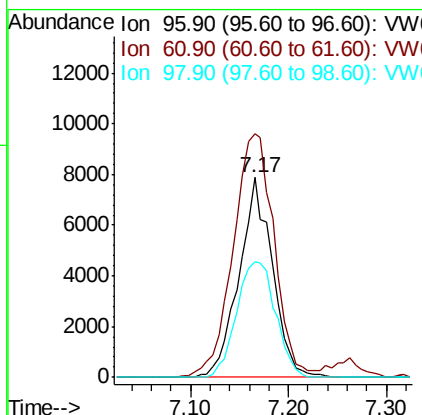
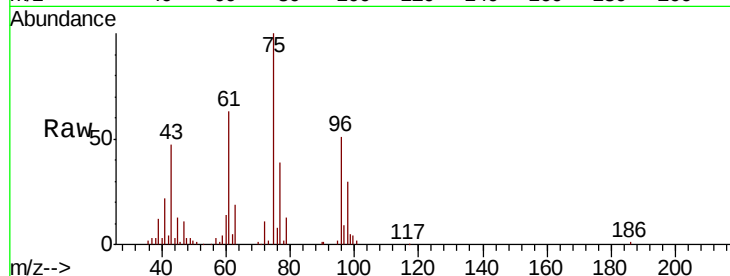
cis-1,2-Dichloroethene
Concen: 5.570 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	149.5	0.0	274.4
98	67.1	0.0	130.2

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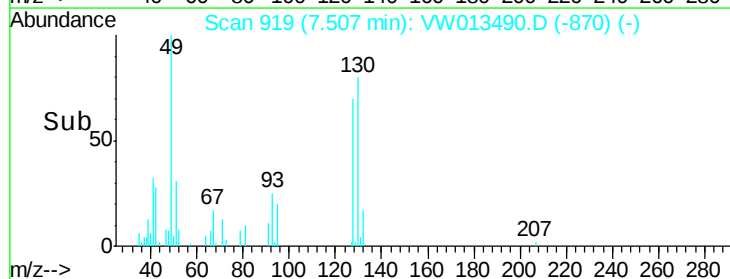
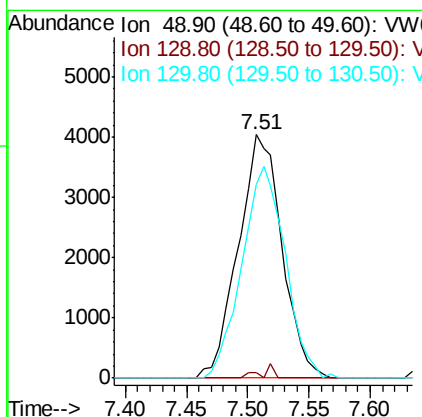
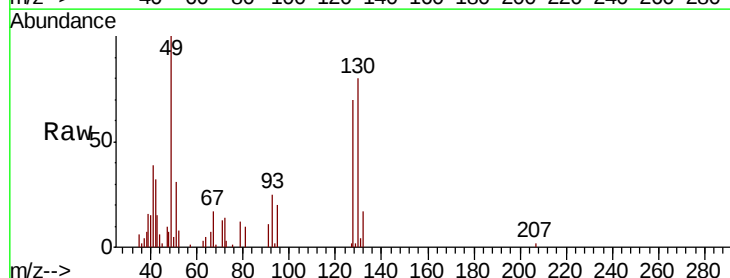
MMDadoda
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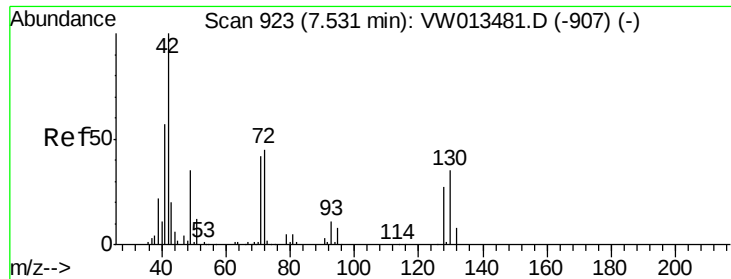


#28

Bromochloromethane
Concen: 5.372 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	1.6
130	0.0	0.0	0.0





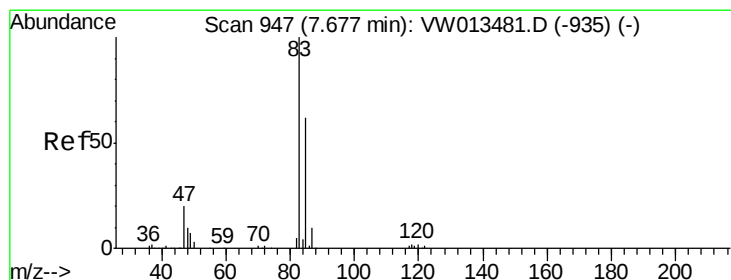
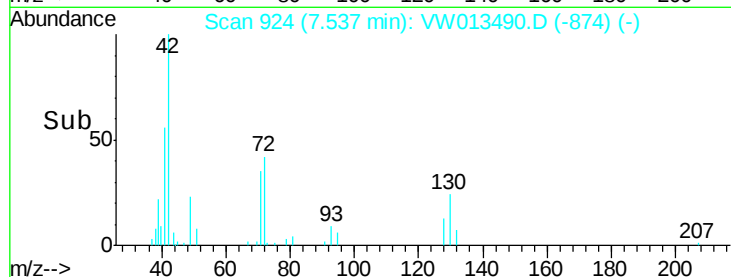
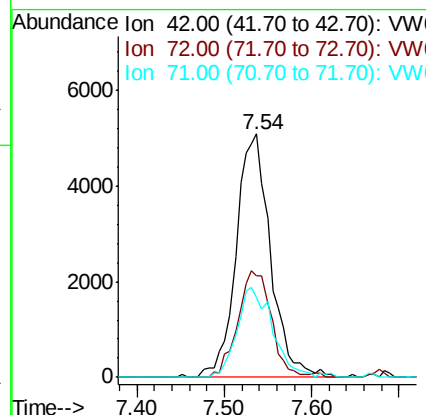
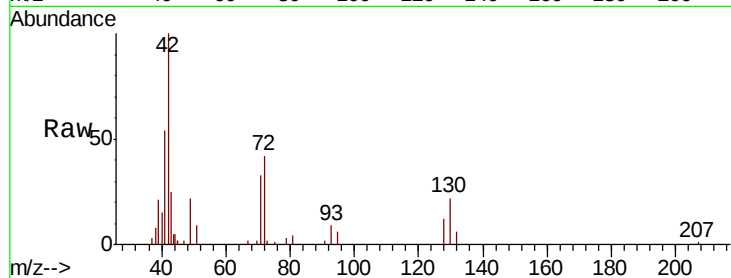
#29
Tetrahydrofuran
Concen: 24.976 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.8	52.2
71	38.1	33.6	50.4

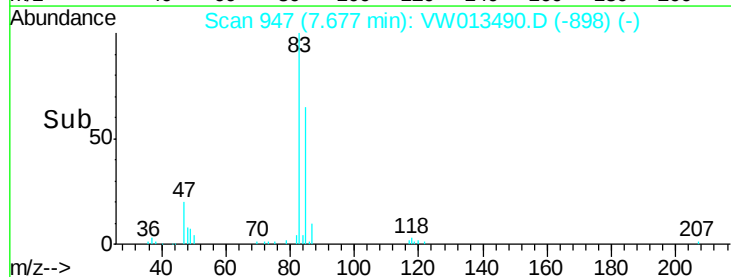
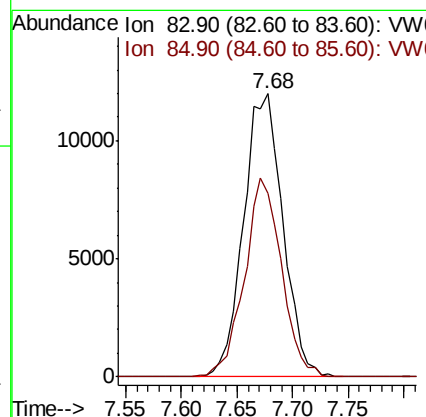
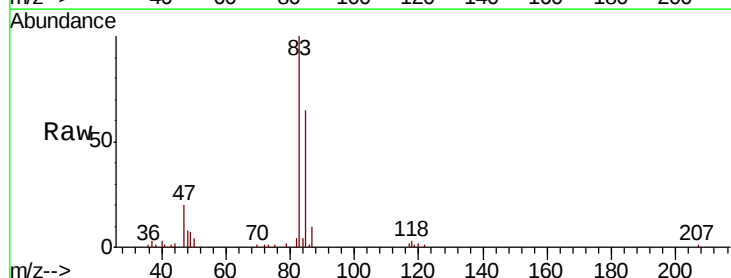
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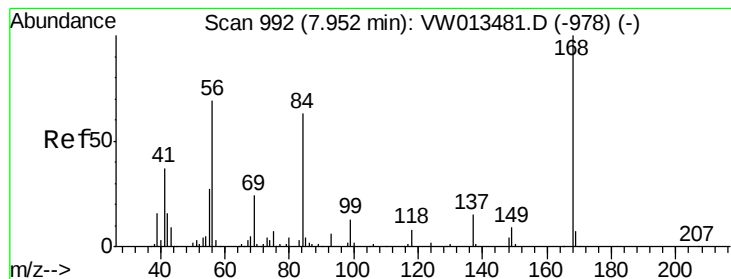
MMDadoda
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#30
Chloroform
Concen: 5.808 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	49.4	74.2





#31

Cyclohexane

Concen: 5.940 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

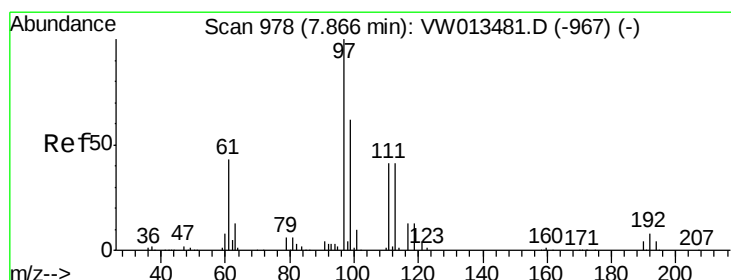
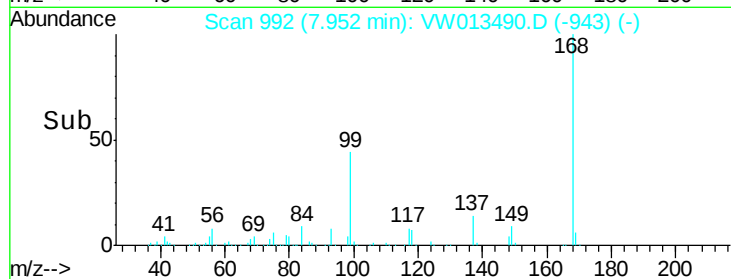
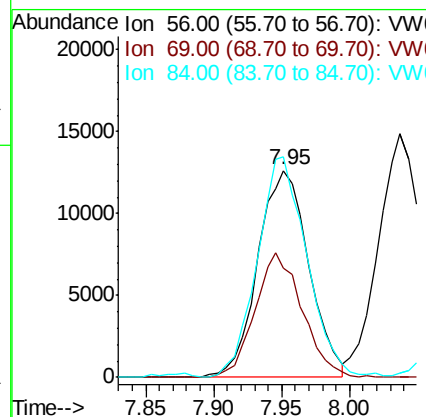
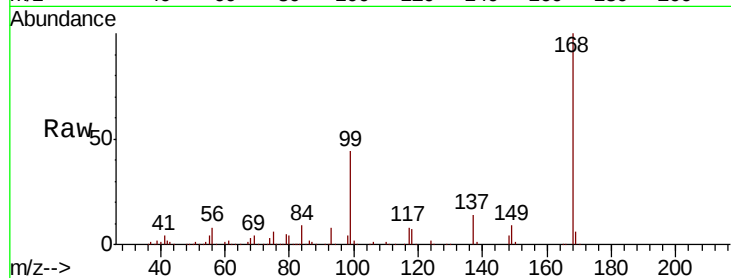
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	56	Resp:	32960
Ion Ratio	Lower	Upper	
56	100		
69	52.9	28.0	42.0#
84	105.6	71.8	107.6

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#32

1,1,1-Trichloroethane

Concen: 5.607 ug/l

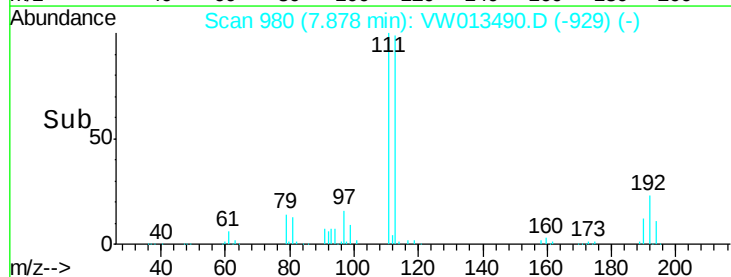
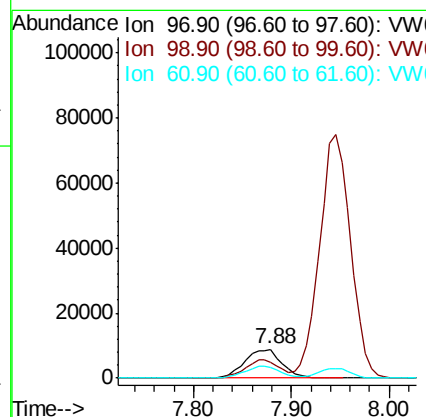
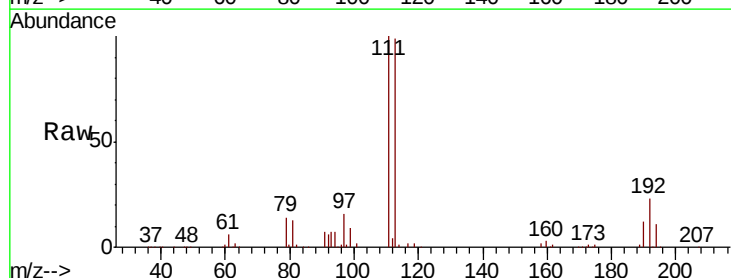
RT: 7.88 min Scan# 980

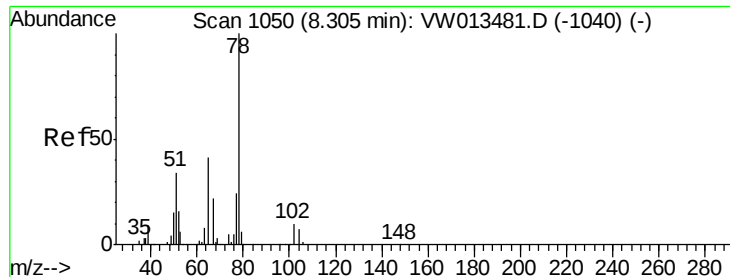
Delta R.T. 0.01 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	97	Resp:	23112
Ion Ratio	Lower	Upper	
97	100		
99	58.4	52.3	78.5
61	40.7	33.7	50.5





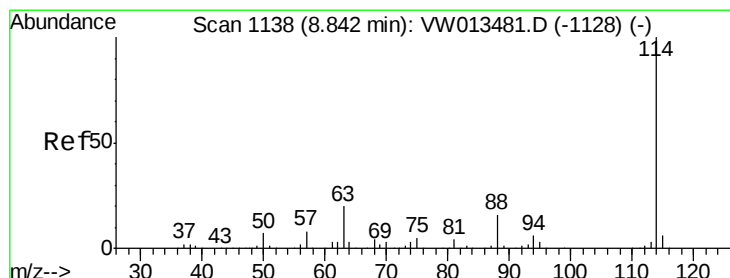
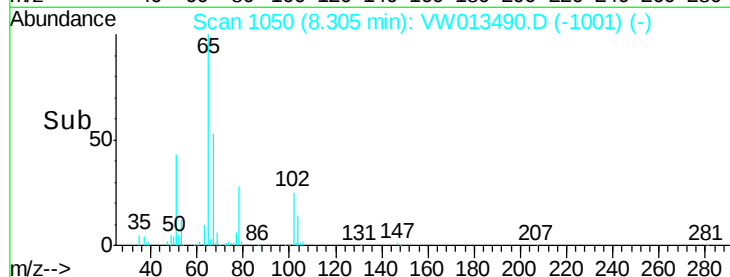
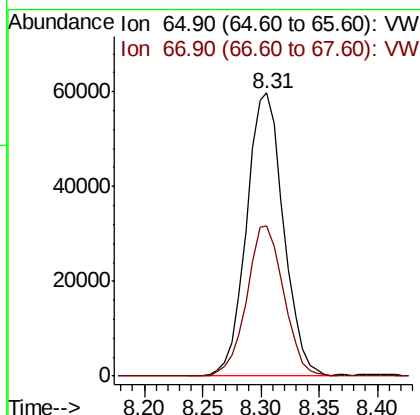
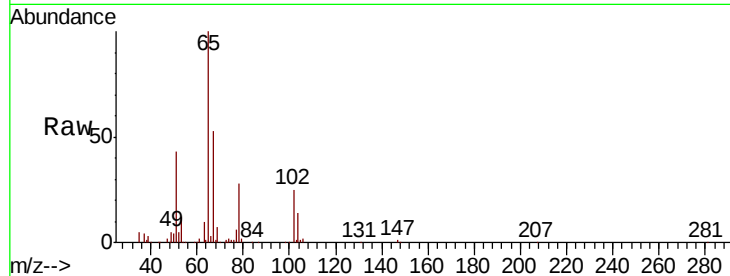
#33
 1,2-Dichloroethane-d4
 Concen: 49.824 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.1	0.0	109.4	

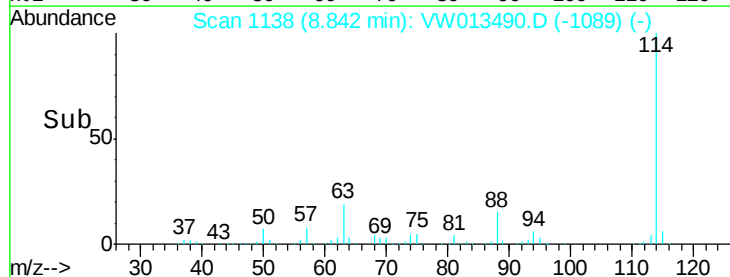
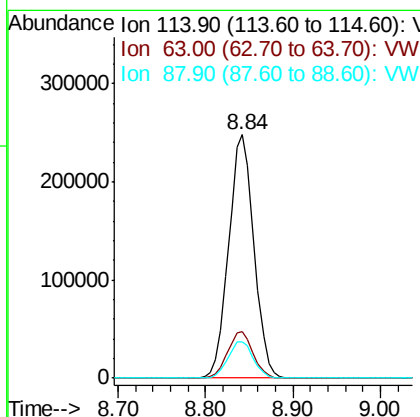
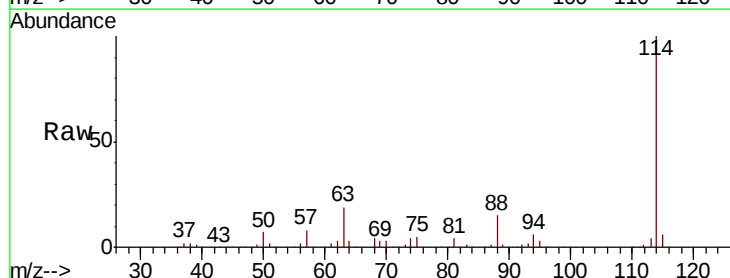
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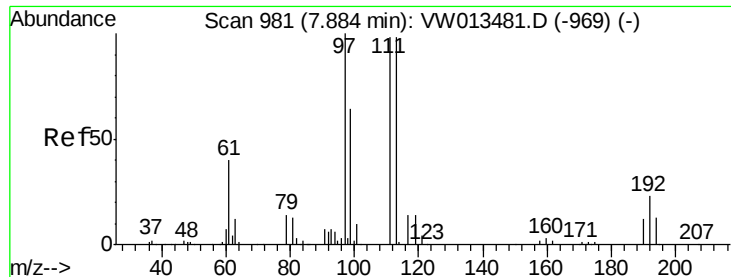
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.2	0.0	40.4	
88	15.1	0.0	31.4	





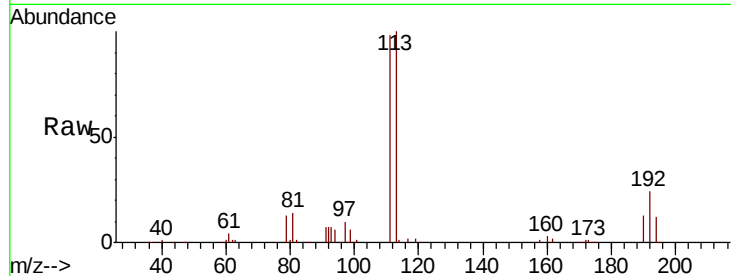
#35
 Dibromofluoromethane
 Concen: 49.079 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

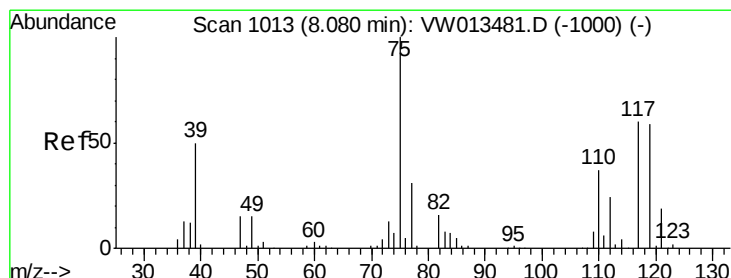
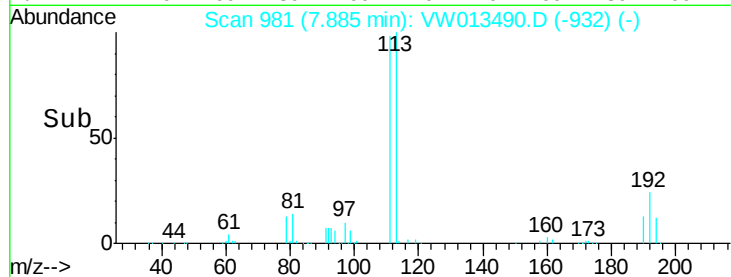
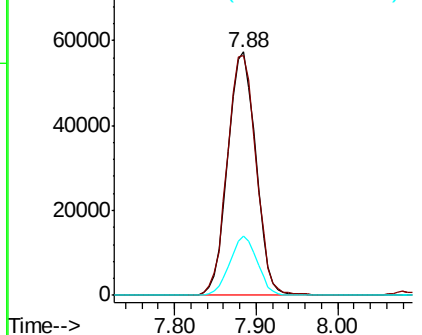
Tot Ion	Ratio	Resp	Lower	Upper
113	100	135893		
111	100.9	82.3	123.5	
192	23.9	19.3	28.9	

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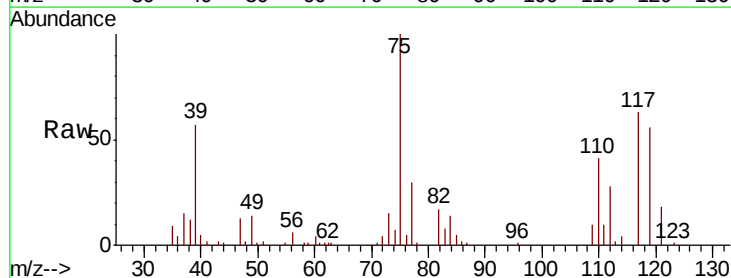


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

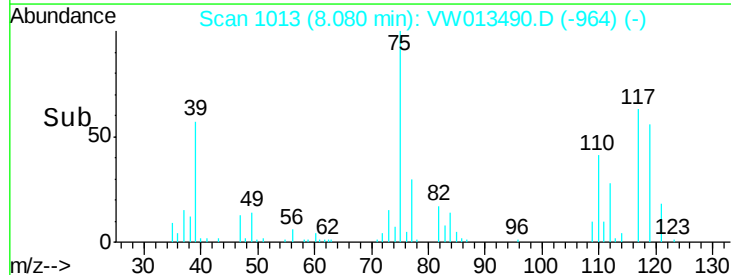
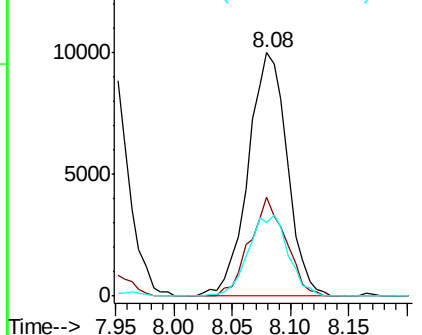


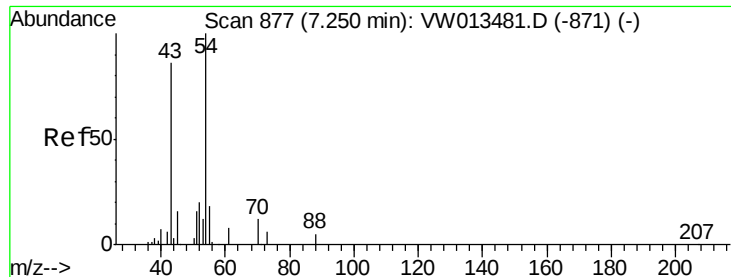
#36
 1,1-Dichloropropene
 Concen: 5.200 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	23319		
110	37.4	18.4	55.2	
77	33.7	25.0	37.4	



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 5.513 ug/l

RT: 7.25 min Scan# 877

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

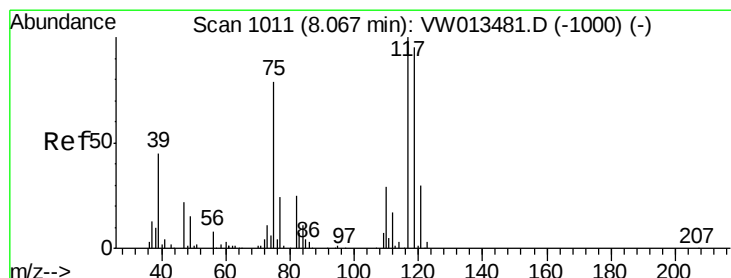
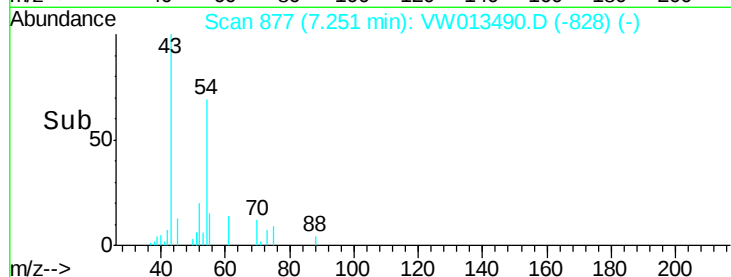
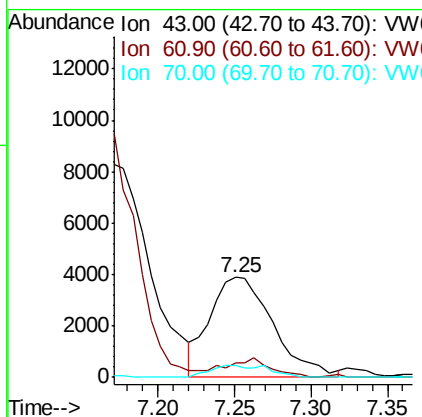
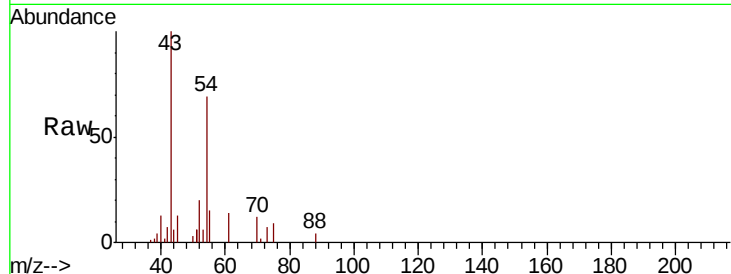
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	43	Resp:	11218
Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.9	16.3
70	11.0	9.2	13.8

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#38

Carbon Tetrachloride

Concen: 5.391 ug/l

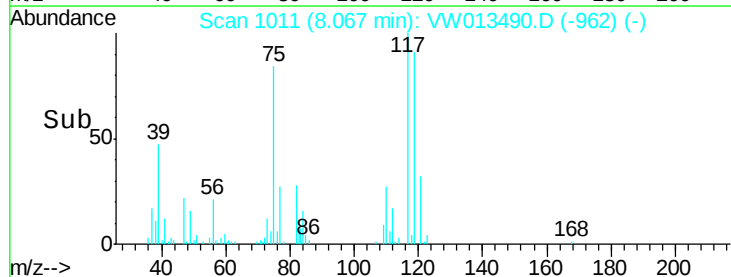
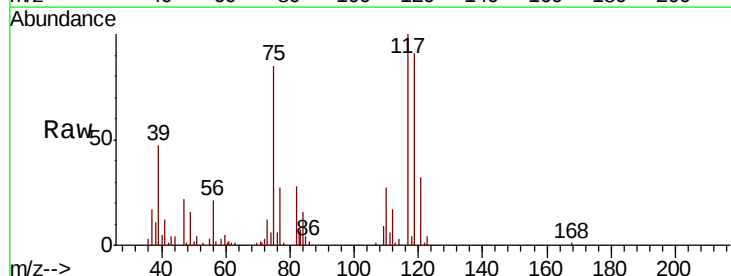
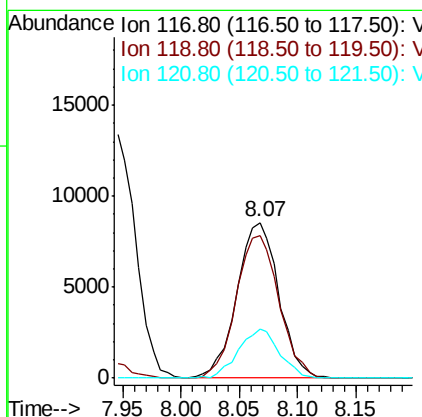
RT: 8.07 min Scan# 1011

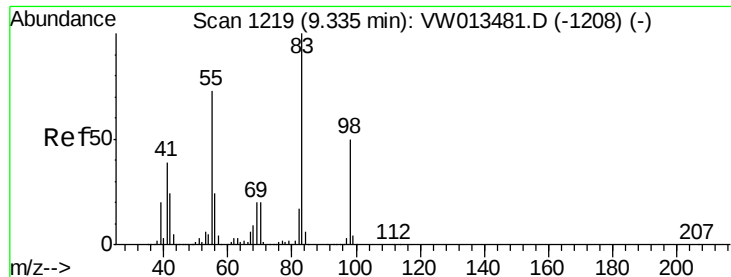
Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	117	Resp:	21431
Ion	Ratio	Lower	Upper
117	100		
119	91.3	76.3	114.5
121	31.9	23.6	35.4





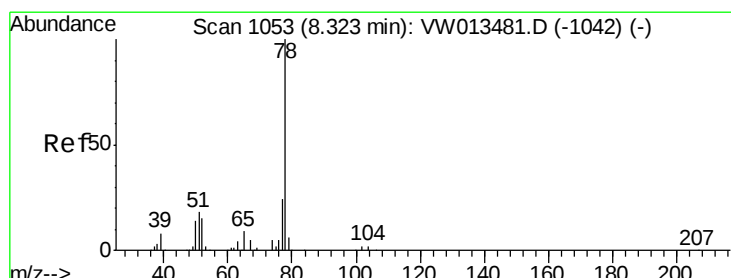
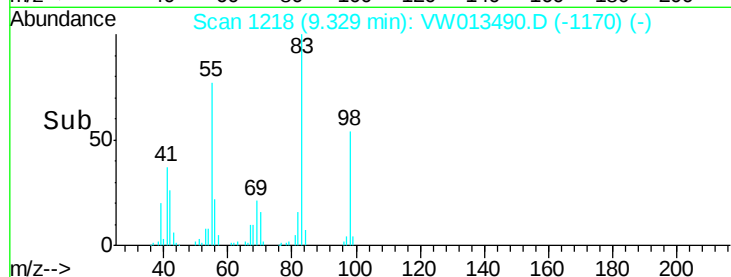
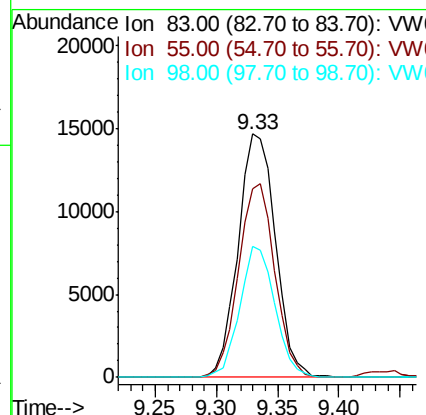
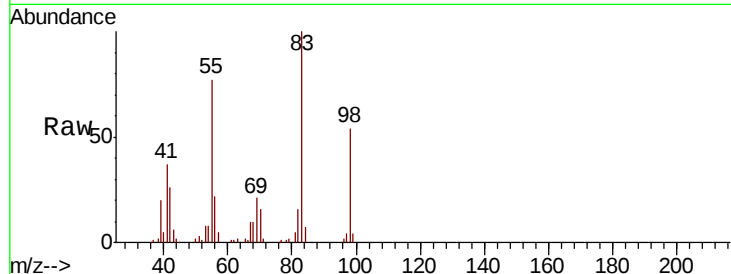
#39
Methvlcvclohexane
Concen: 5.368 ug/l
RT: 9.33 min Scan# 1219
Delta R.T. -0.01 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.3	58.2	87.4
98	54.0	39.8	59.6

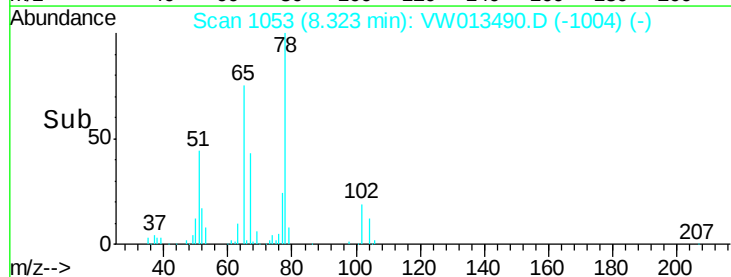
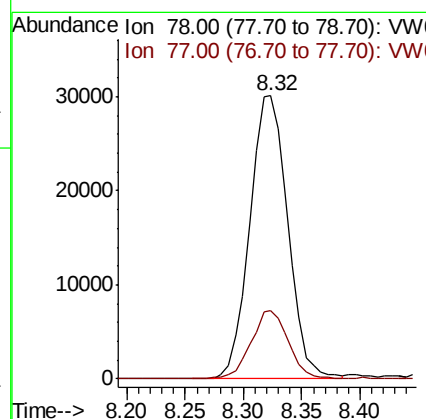
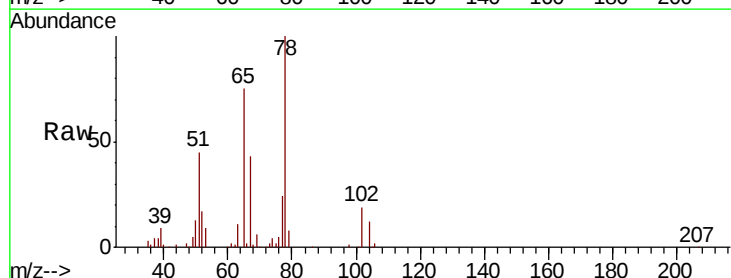
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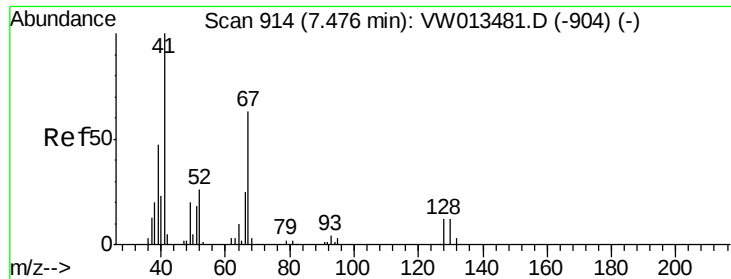
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#40
Benzene
Concen: 5.477 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.2	28.8





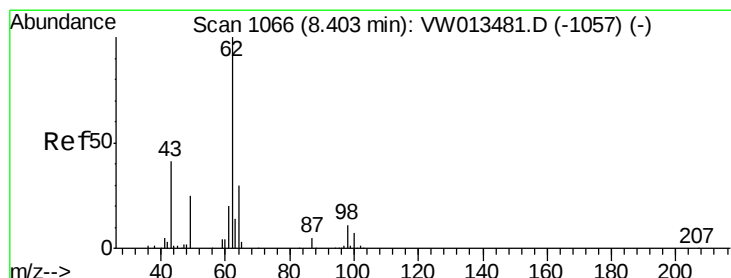
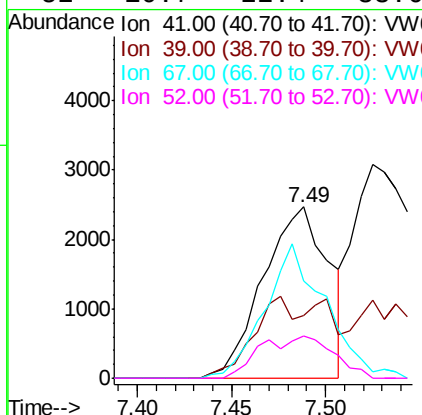
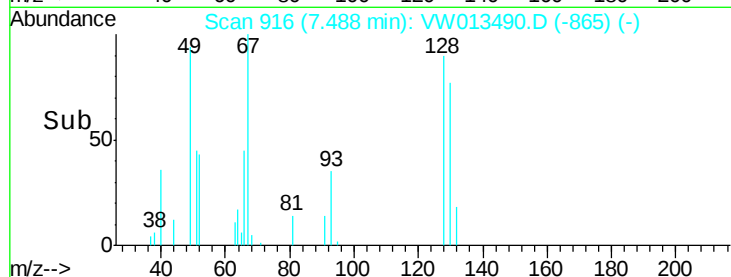
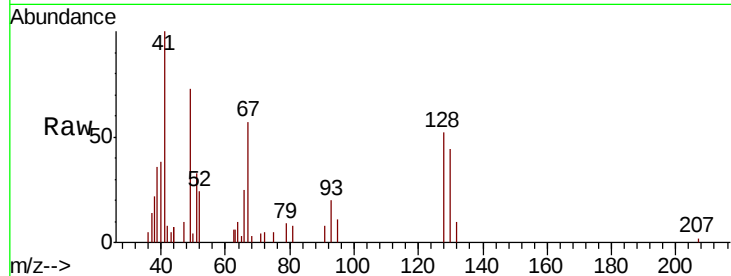
#41
Methacrylonitrile
Concen: 5.137 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	28.9	39.4	59.0#
67	73.1	57.0	85.6
52	10.7	22.4	33.6#

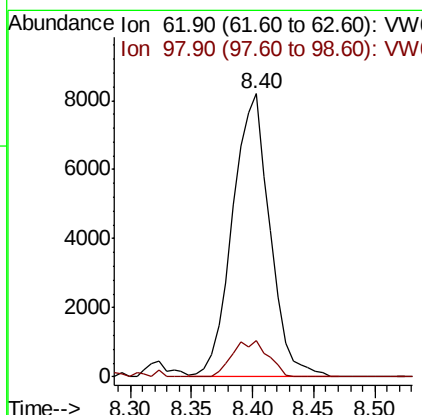
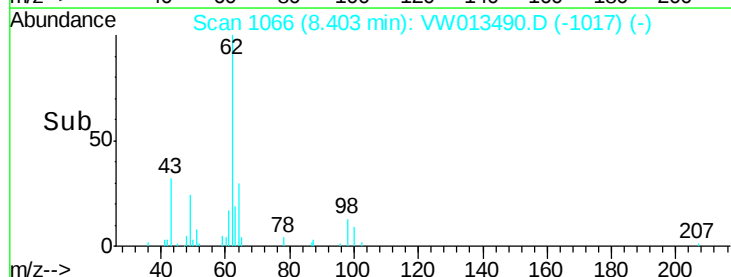
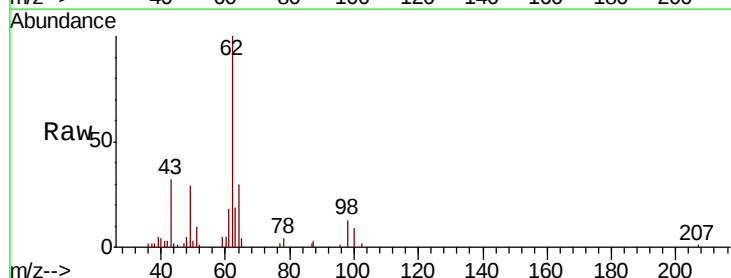
Manual Integrations
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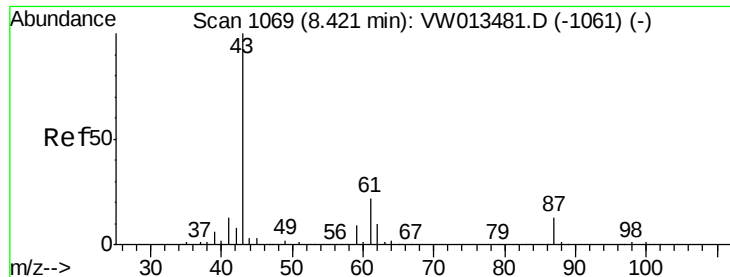
MMDadoda
10/9/2019 4:10:06 PM



#42
1,2-Dichloroethane
Concen: 5.475 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
62	100		
98	12.2	0.0	21.4





#43

Isopropyl Acetate

Concen: 5.325 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

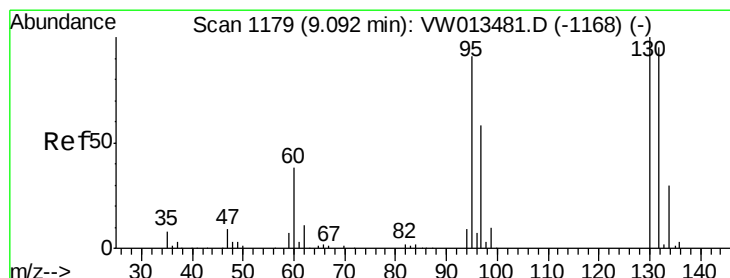
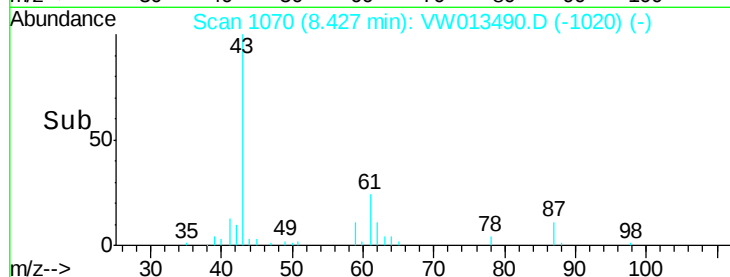
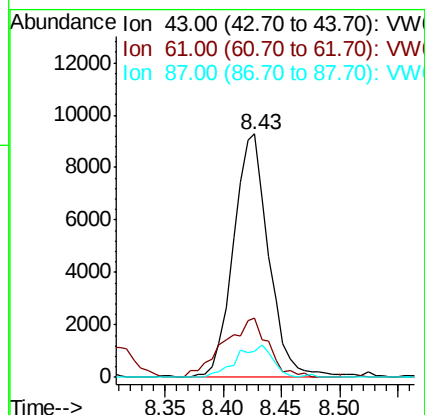
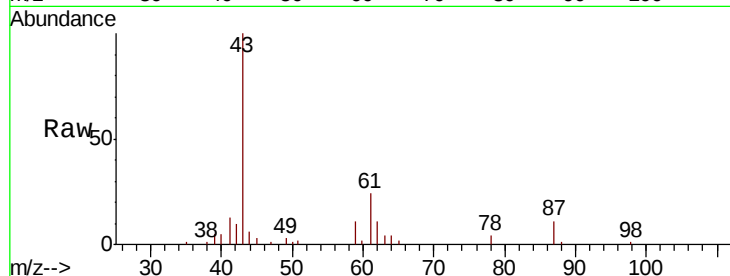
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	43	Resp:	19576
Ion	Ratio	Lower	Upper
43	100		
61	30.4	25.4	38.2
87	13.3	10.8	16.2

Manual Integrations
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#44

Trichloroethene

Concen: 5.404 ug/l

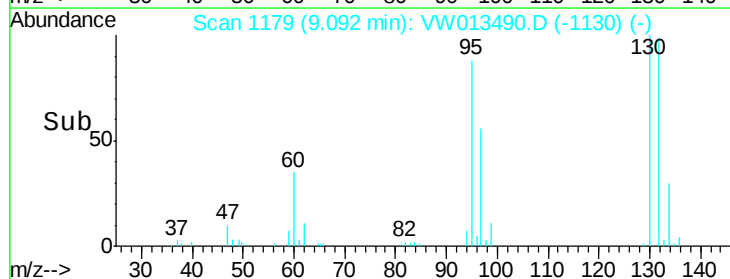
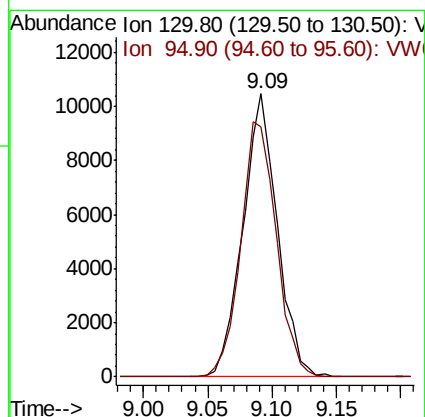
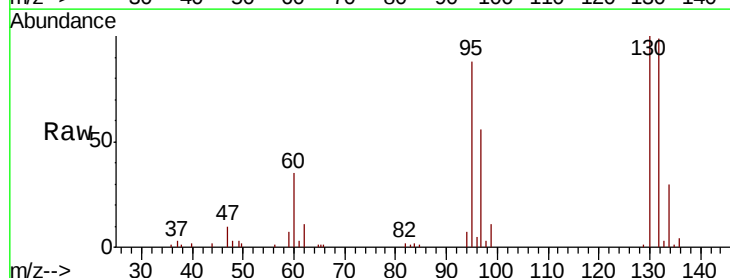
RT: 9.09 min Scan# 1179

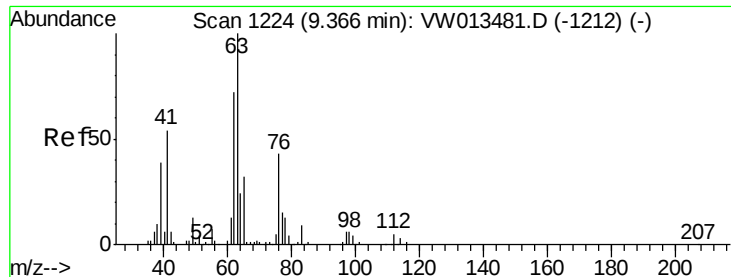
Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	130	Resp:	19300
Ion	Ratio	Lower	Upper
130	100		
95	88.2	0.0	182.2





#45

1,2-Dichloropropane

Concen: 5.398 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 63 Resp: 16219

Ion Ratio Lower Upper

63 100

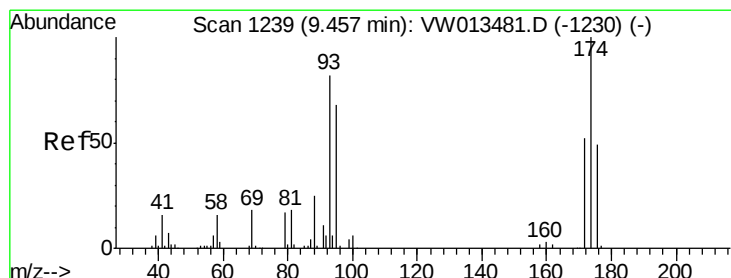
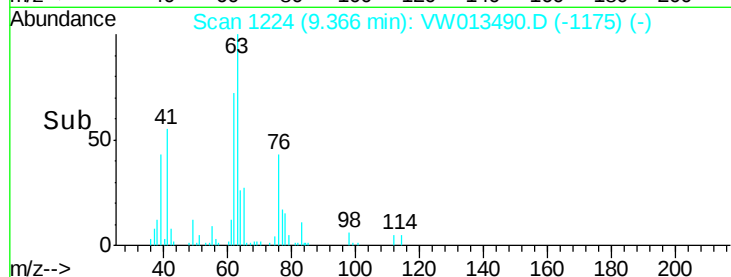
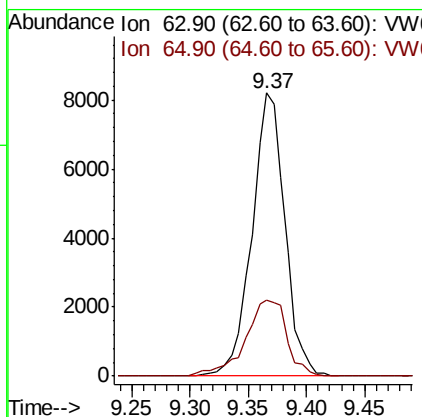
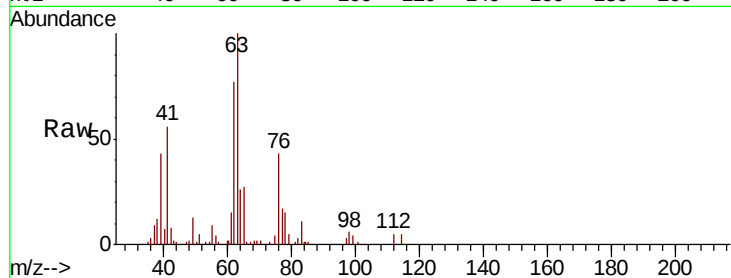
65 26.9 25.8 38.6

Manual Integrations

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#46

Dibromomethane

Concen: 5.417 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

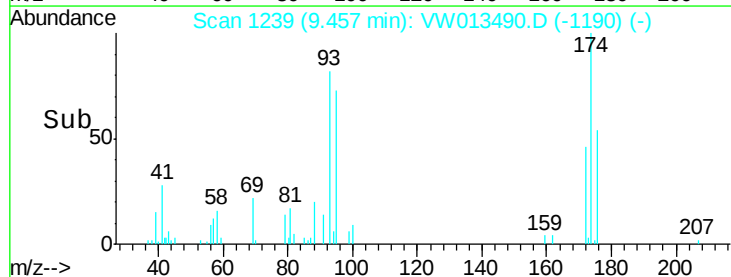
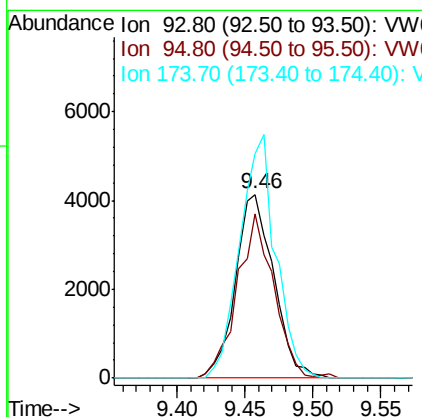
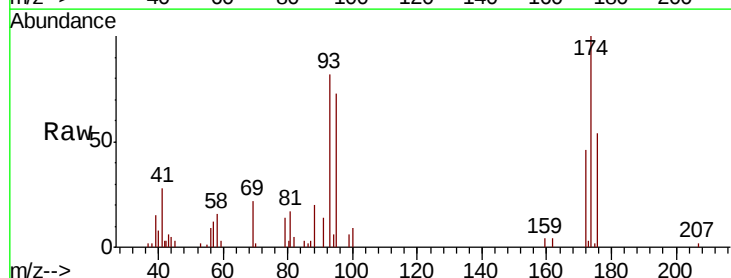
Tgt Ion: 93 Resp: 8109

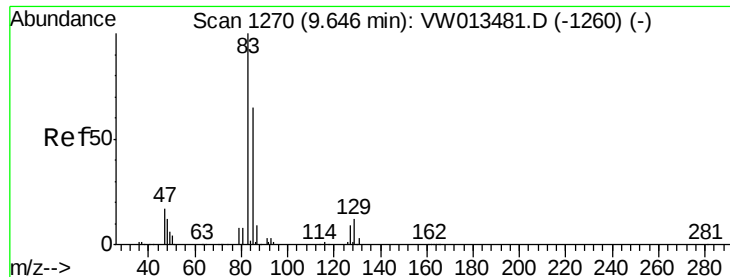
Ion Ratio Lower Upper

93 100

95 85.8 68.0 102.0

174 124.2 97.0 145.6





#47

Bromodichloromethane

Concen: 5.434 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

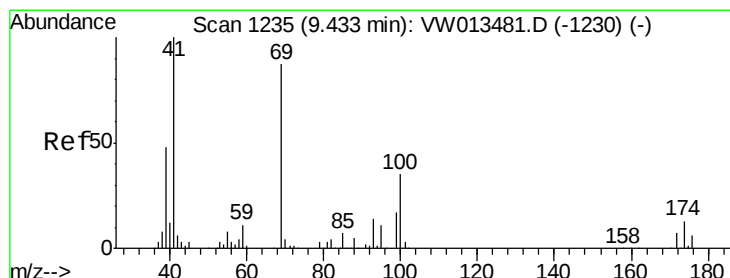
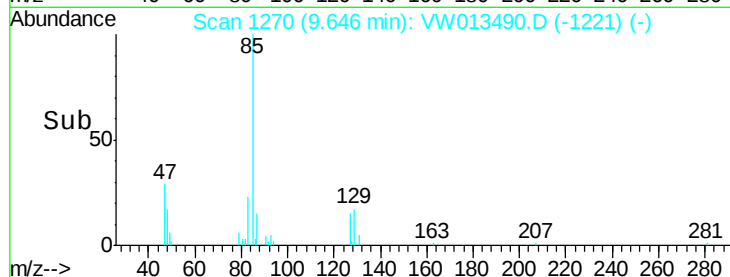
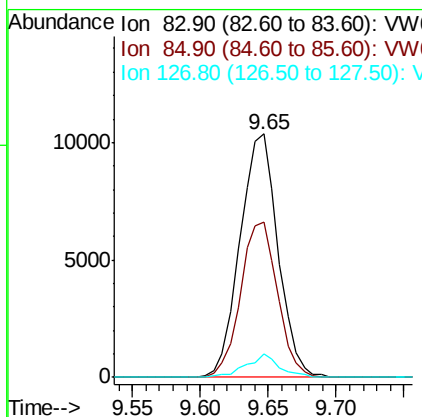
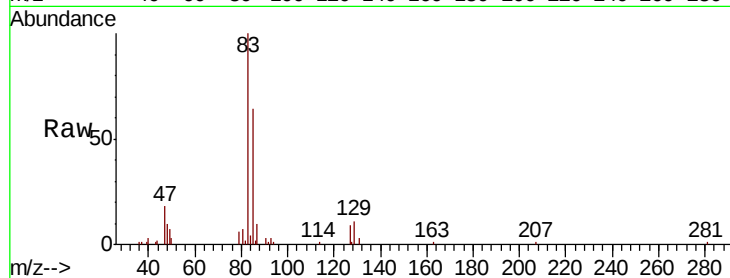
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	83	Resp:	20222
Ion Ratio	Lower	Upper	
83	100		
85	63.6	51.9	77.9
127	9.4	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.792 ug/l

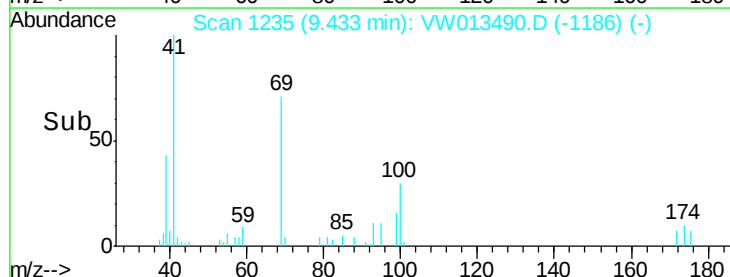
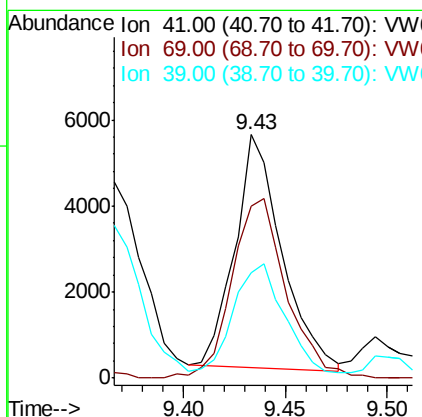
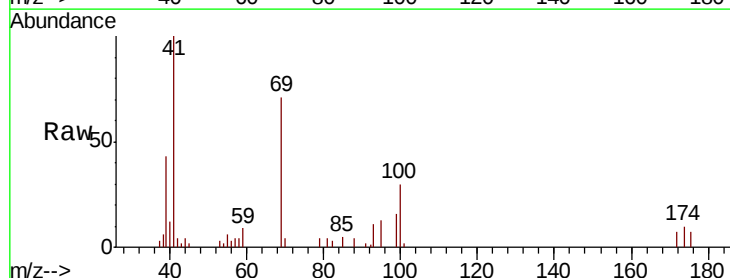
RT: 9.43 min Scan# 1235

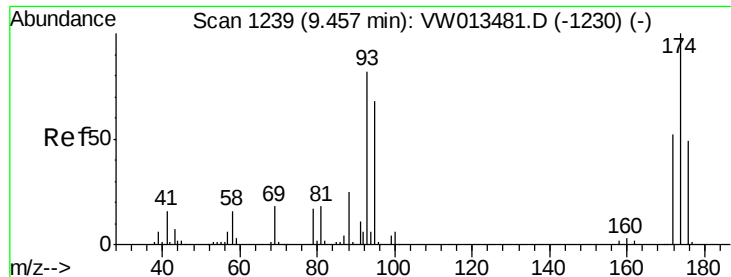
Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	41	Resp:	8677
Ion Ratio	Lower	Upper	
41	100		
69	89.2	70.4	105.6
39	50.6	37.3	55.9





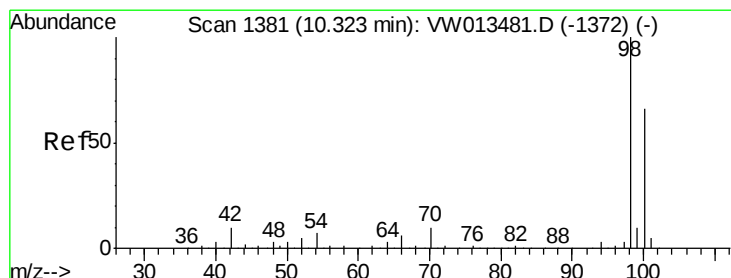
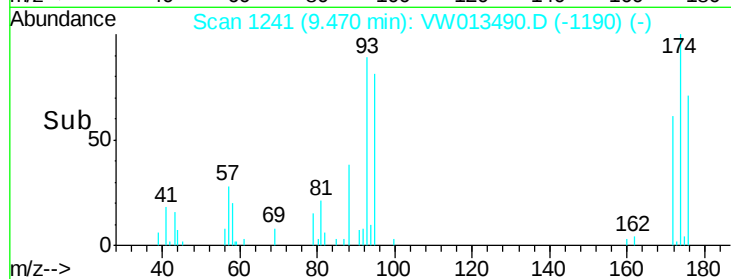
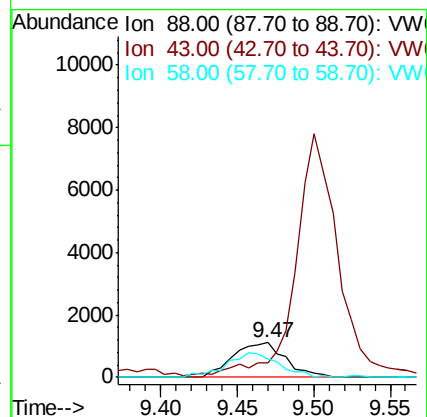
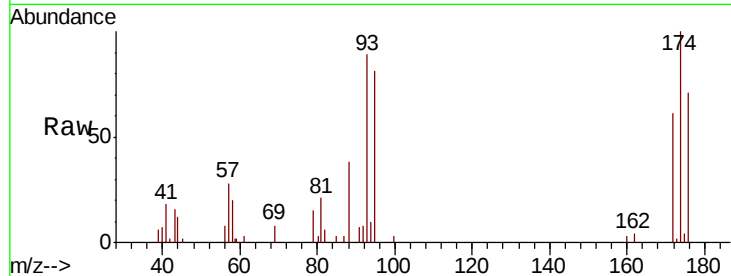
#49
1,4-Dioxane
Concen: 100.593 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion: 88 Resp: 2644
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 70.4 60.0 90.0

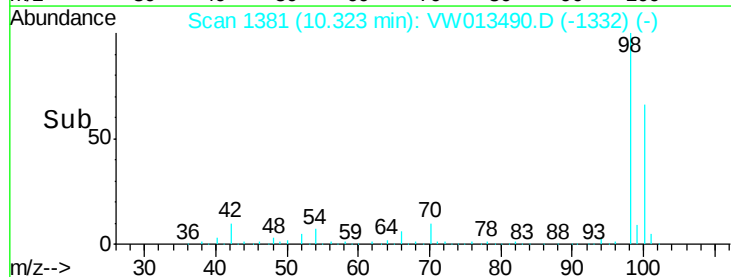
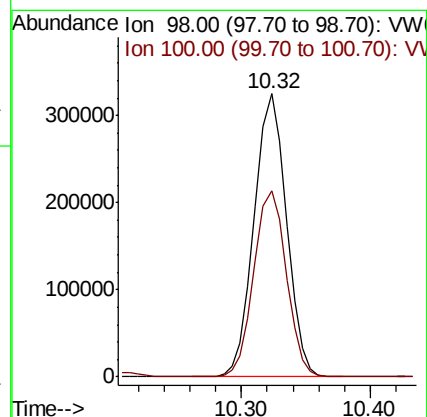
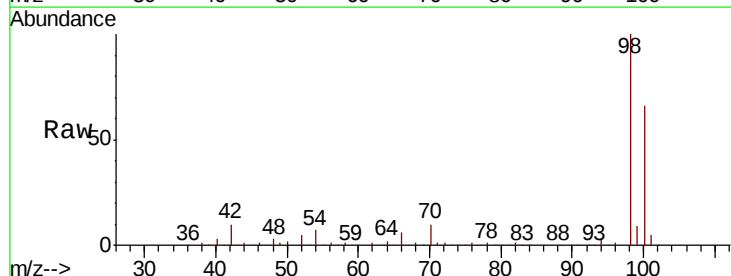
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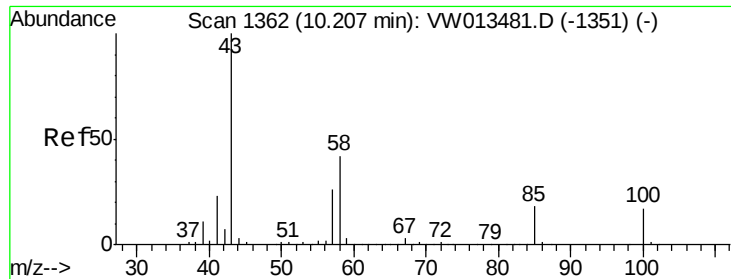
MMDadoda
10/9/2019 4:10:06 PM



#50
Toluene-d8
Concen: 48.468 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion: 98 Resp: 563976
Ion Ratio Lower Upper
98 100
100 66.3 53.2 79.8





#51

4-Methyl-2-Pentanone

Concen: 25.935 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 50124

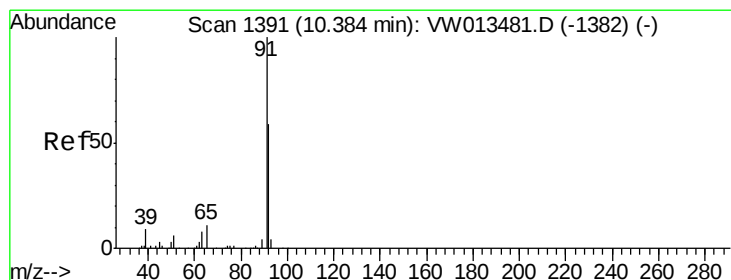
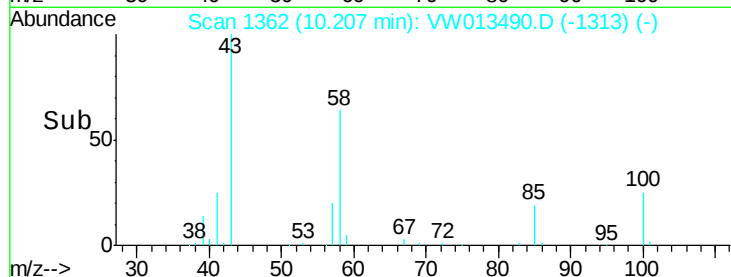
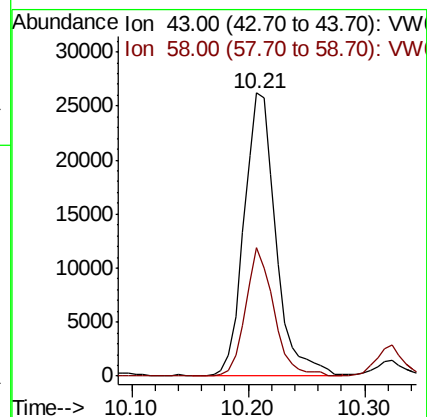
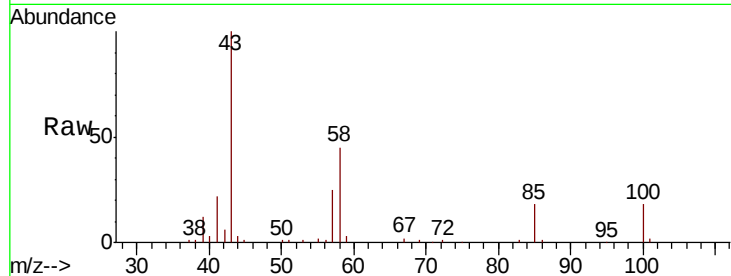
Ion Ratio Lower Upper

43 100

58 40.3 32.8 49.2

Manual Integrations
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#52

Toluene

Concen: 5.364 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013490.D

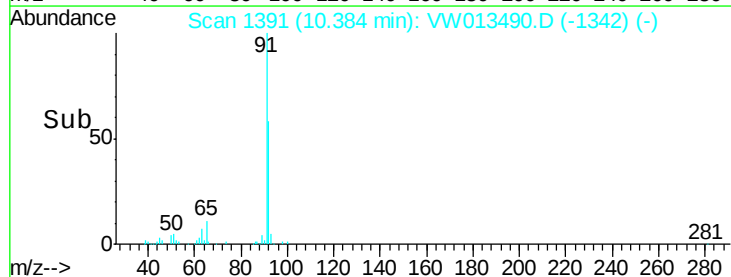
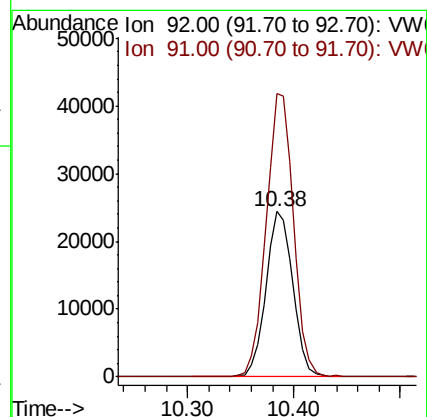
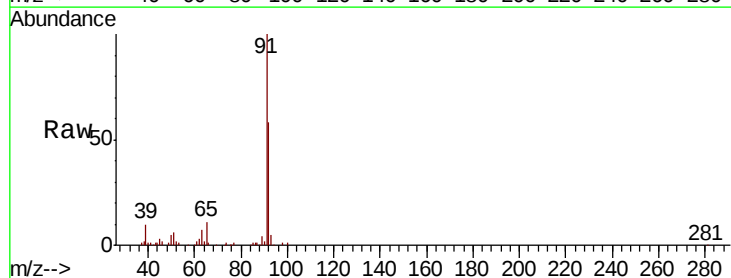
Acq: 08 Oct 2019 16:45

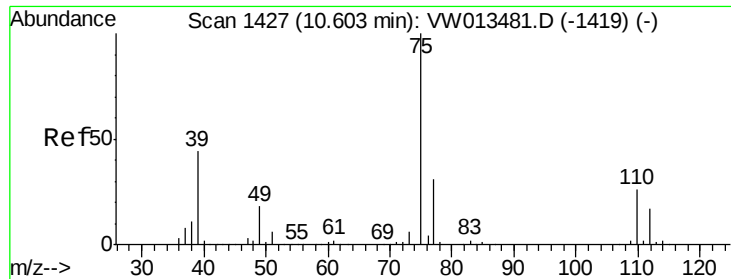
Tgt Ion: 92 Resp: 43256

Ion Ratio Lower Upper

92 100

91 173.7 134.8 202.2





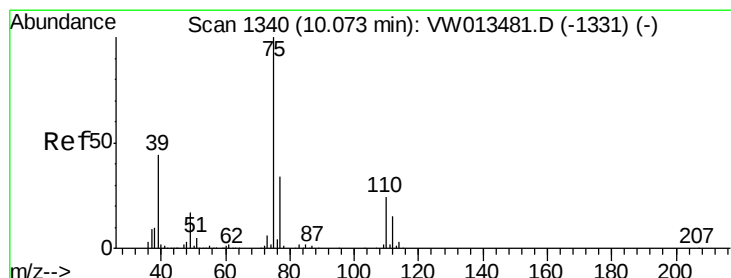
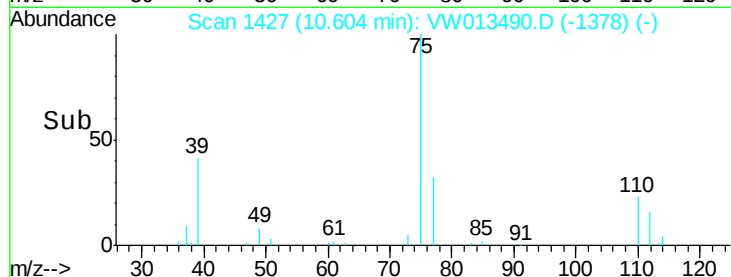
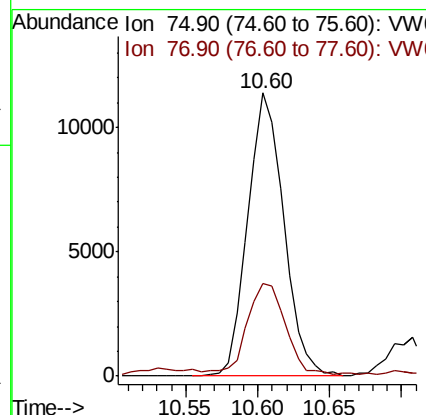
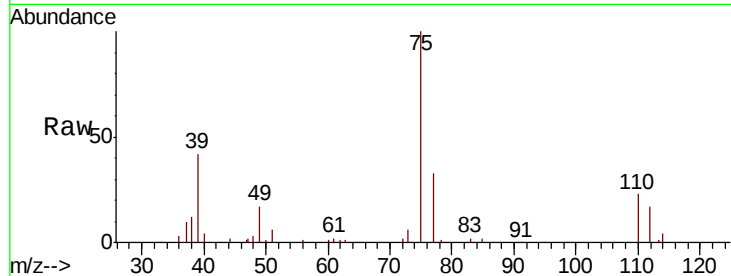
#53
t-1,3-Dichloropropene
Concen: 5.106 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.2	37.8

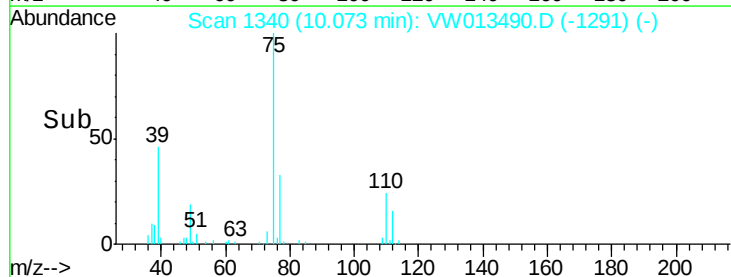
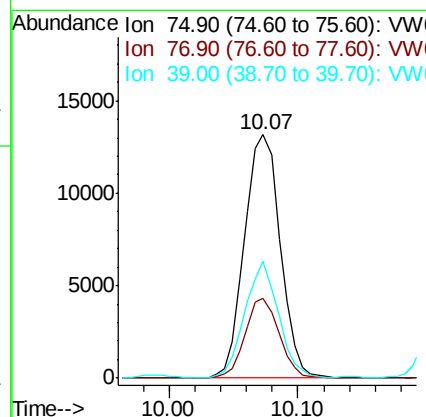
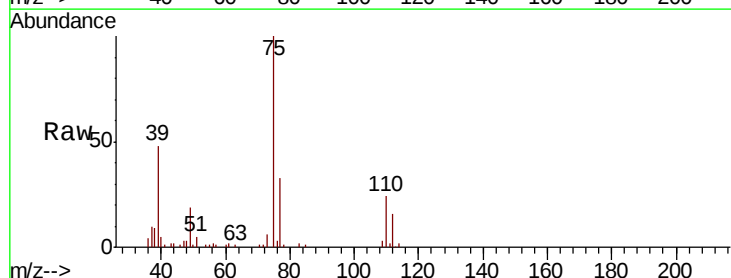
Manual Integrations
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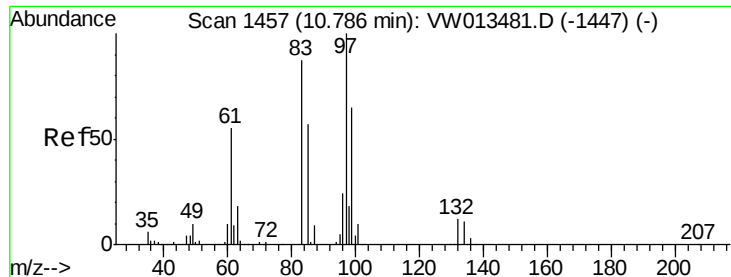
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 5.399 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.7	27.0	40.4
39	48.1	35.0	52.4





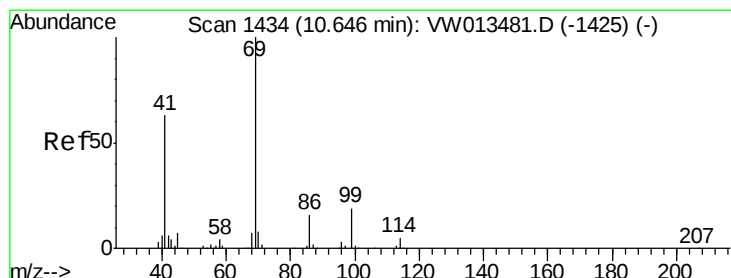
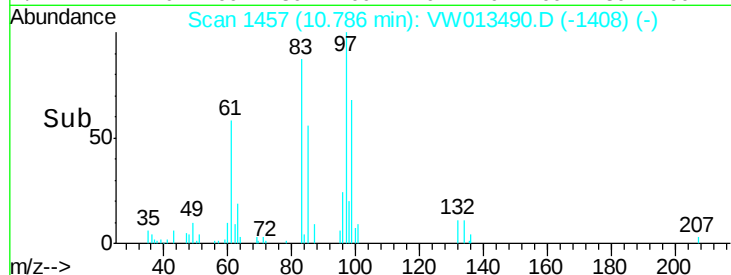
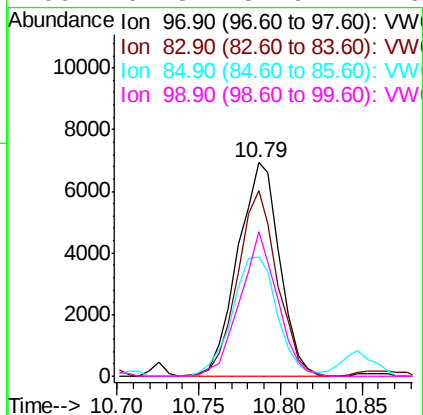
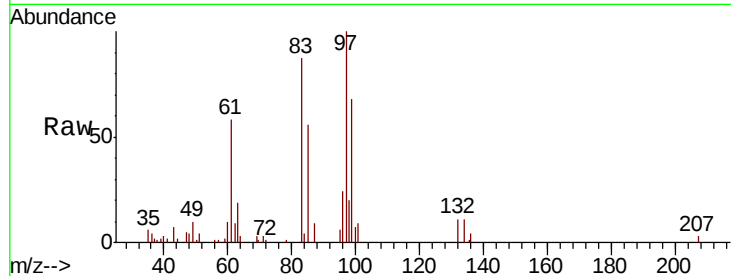
#55
 1,1,2-Trichloroethane
 Concen: 5.534 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion:	97	Resp:	12434
Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.8	104.8
85	55.9	45.4	68.0
99	67.8	51.9	77.9

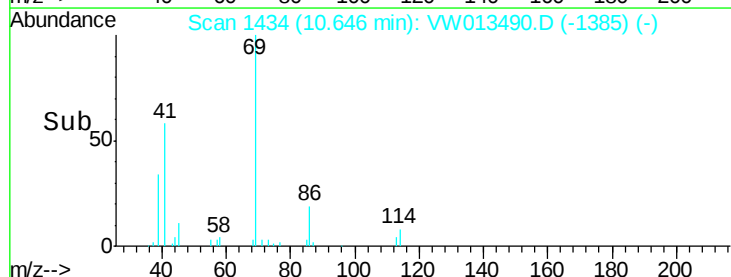
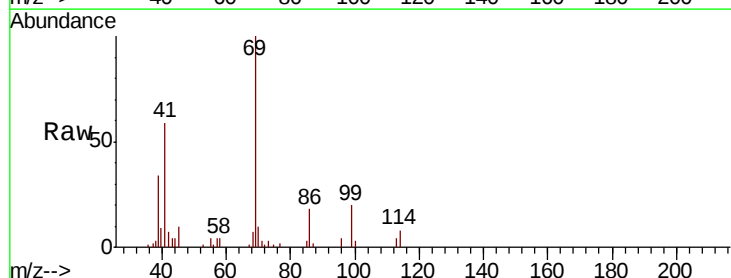
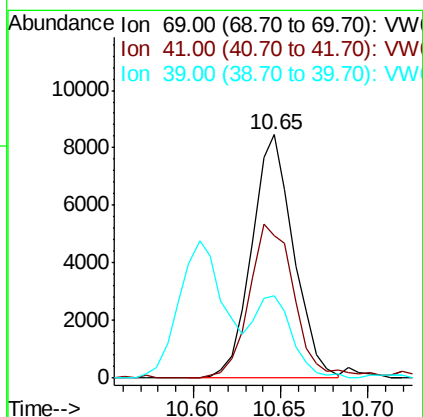
Manual Integrations
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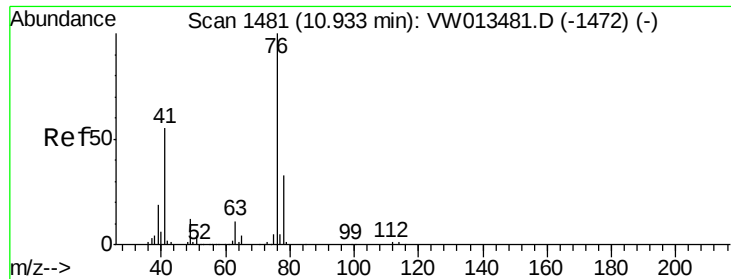
MMDadoda
 10/9/2019 4:10:06 PM



#56
 Ethyl methacrylate
 Concen: 4.637 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion:	69	Resp:	14033
Ion	Ratio	Lower	Upper
69	100		
41	68.9	51.8	77.6
39	31.3	21.7	32.5





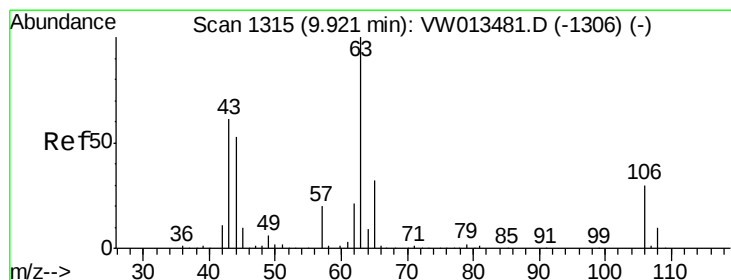
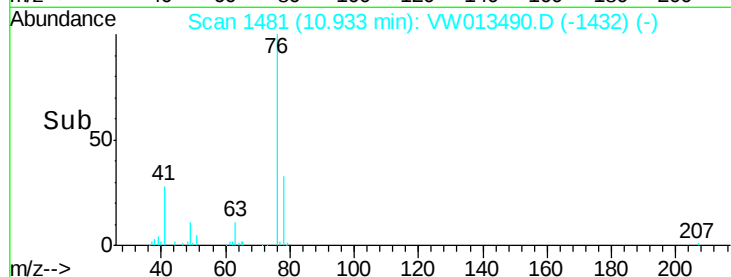
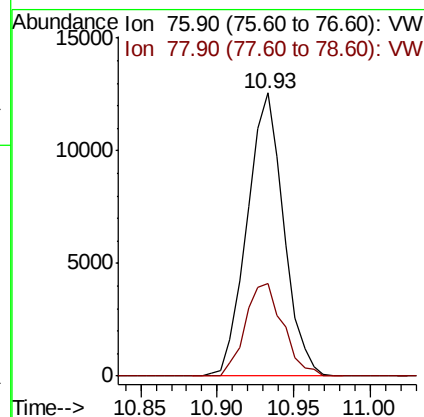
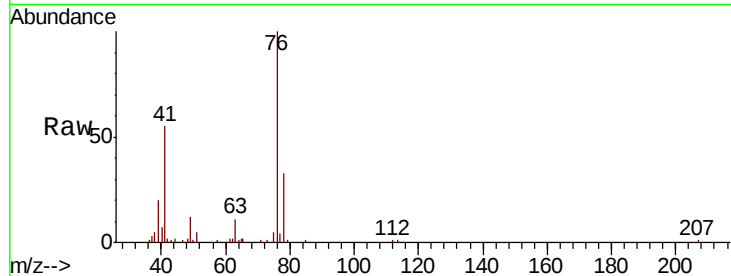
#57
 1,3-Dichloropropane
 Concen: 5.416 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion: 76 Resp: 20896
 Ion Ratio Lower Upper
 76 100
 78 33.7 25.9 38.9

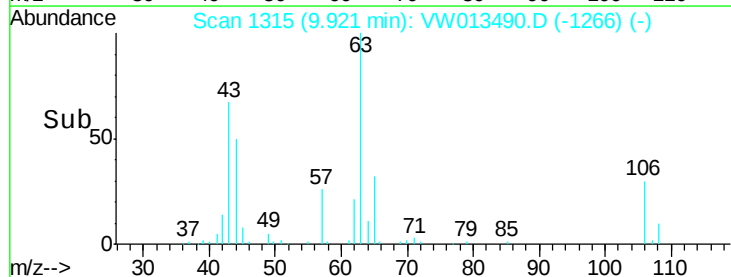
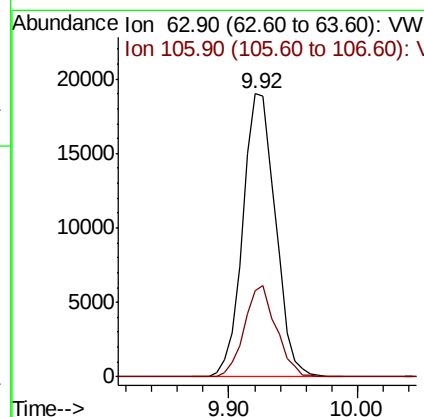
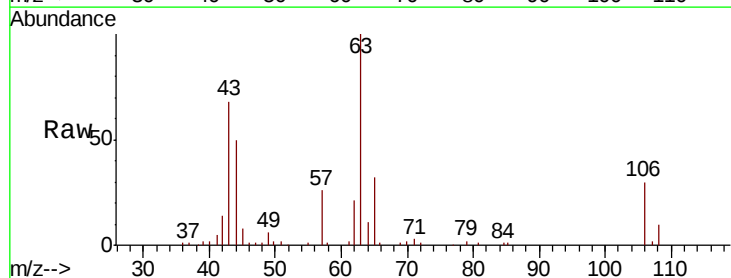
Manual Integrations
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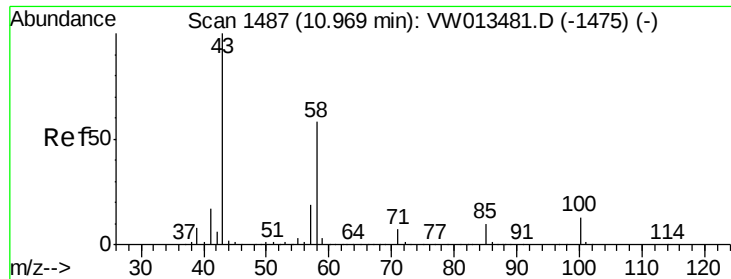
MMDadoda
 10/9/2019 4:10:06 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 23.273 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion: 63 Resp: 33226
 Ion Ratio Lower Upper
 63 100
 106 31.4 24.5 36.7





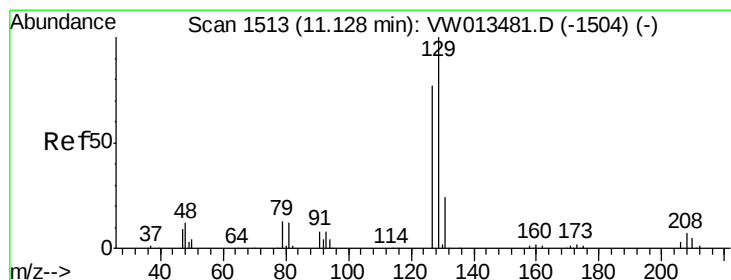
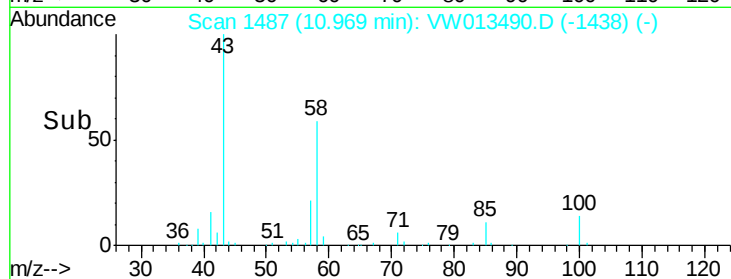
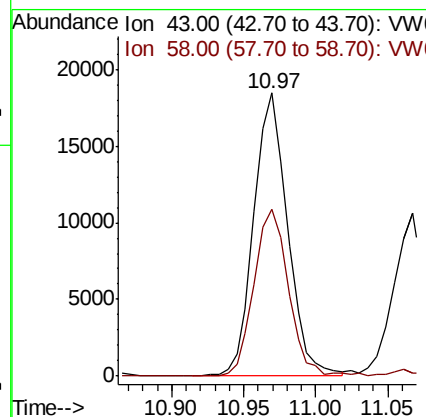
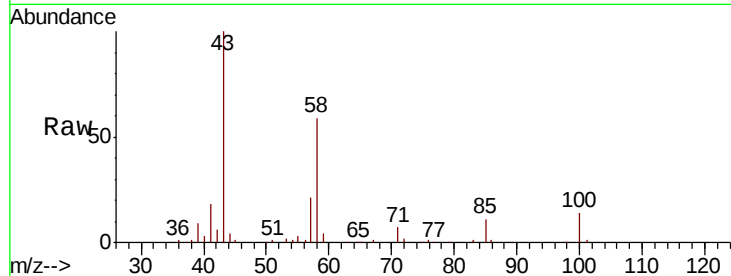
#59
2-Hexanone
Concen: 22.576 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 29920
Ion Ratio Lower Upper
43 100
58 60.5 28.4 85.2

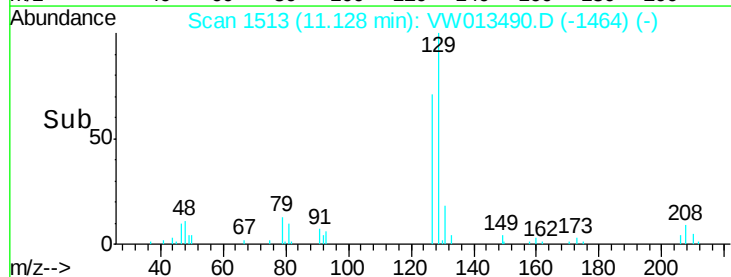
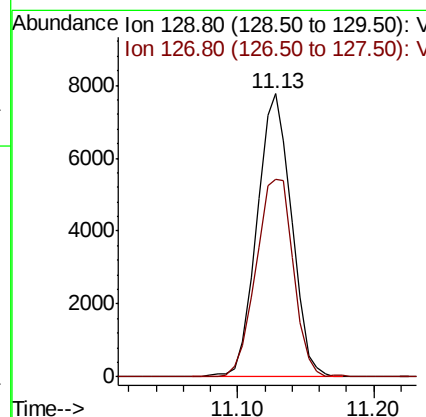
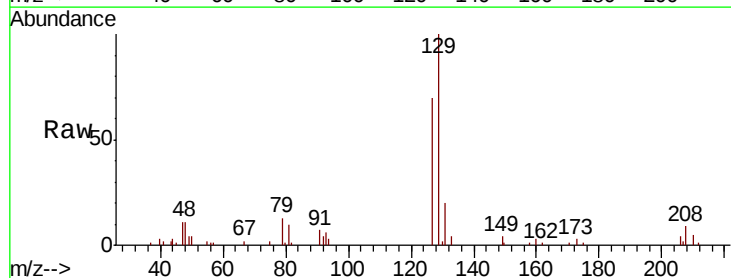
Manual Integrations
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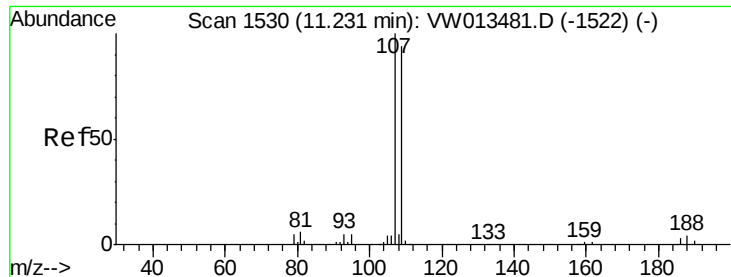
MMDadoda
10/9/2019 4:10:06 PM



#60
Dibromochloromethane
Concen: 5.347 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion: 129 Resp: 13816
Ion Ratio Lower Upper
129 100
127 75.6 37.4 112.1





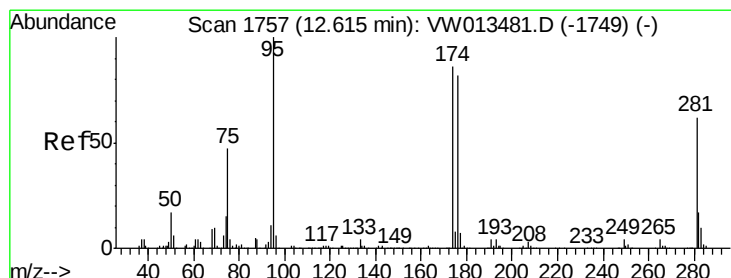
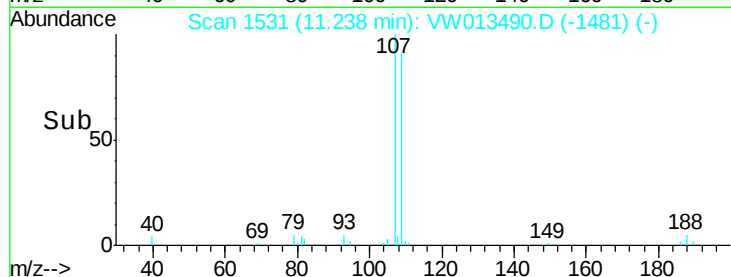
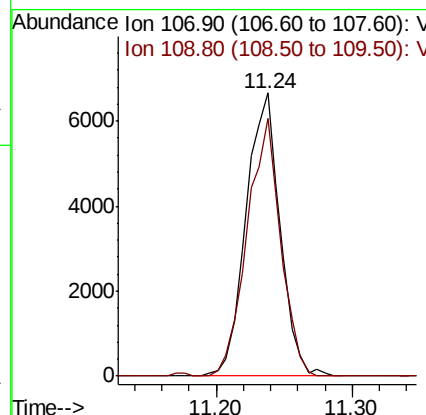
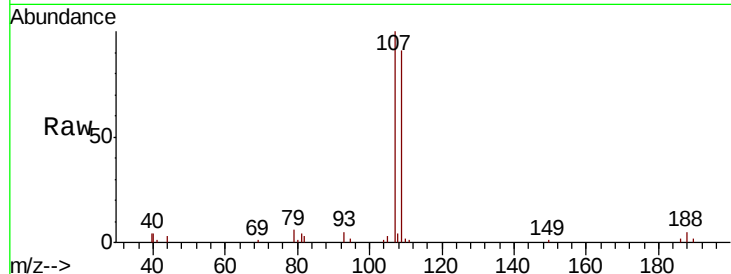
#61
 1,2-Dibromoethane
 Concen: 5.445 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
107	100		
109	89.9	76.6	115.0

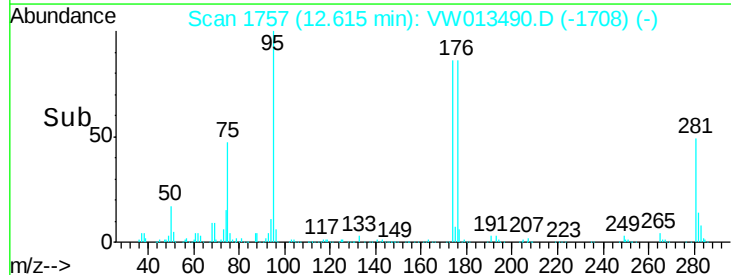
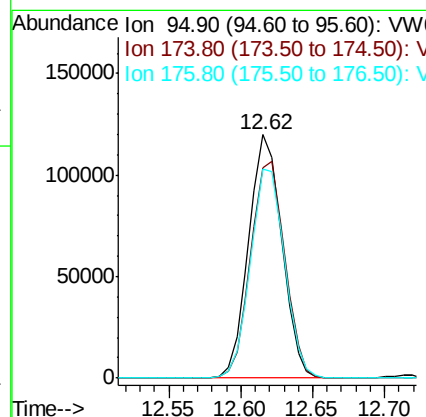
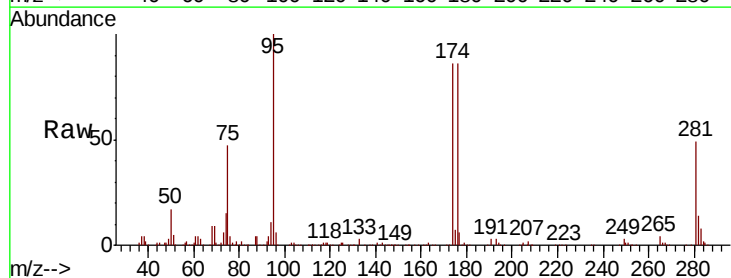
Manual Integrations
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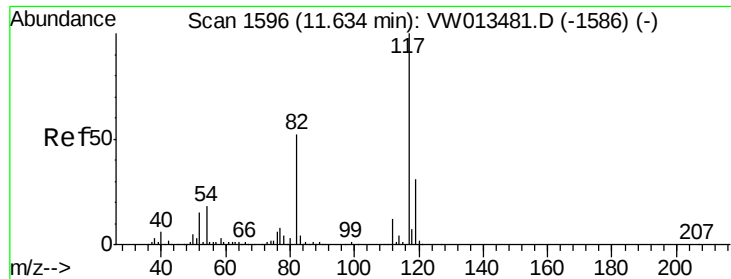
MMDadoda
 10/9/2019 4:10:06 PM



#62
 4-Bromofluorobenzene
 Concen: 49.025 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.3	0.0	177.4
176	88.1	0.0	173.4





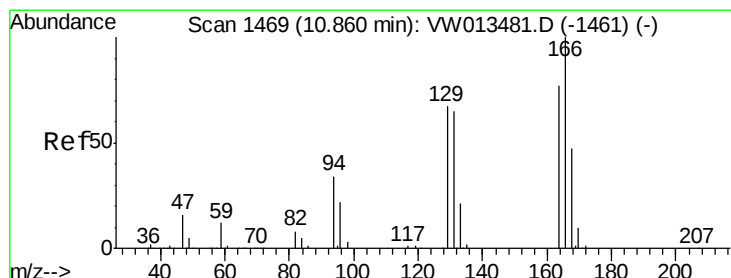
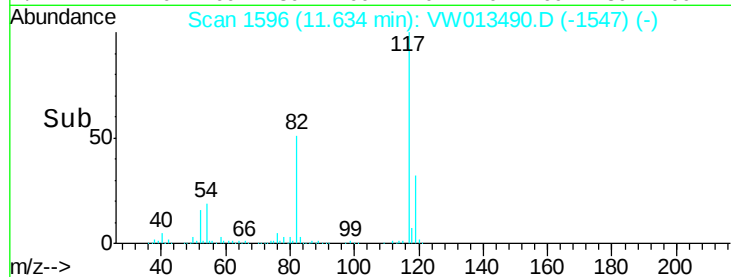
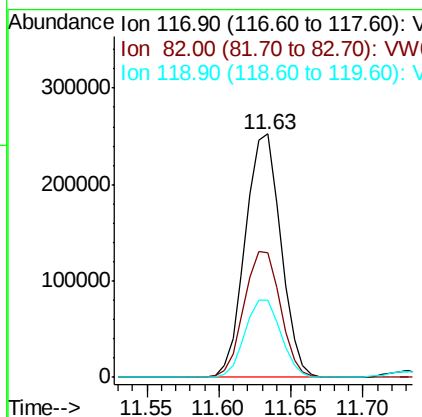
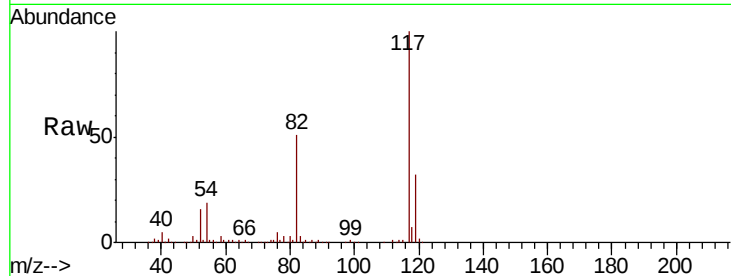
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	432455		
82	51.1		41.4	62.2
119	31.9		25.1	37.7

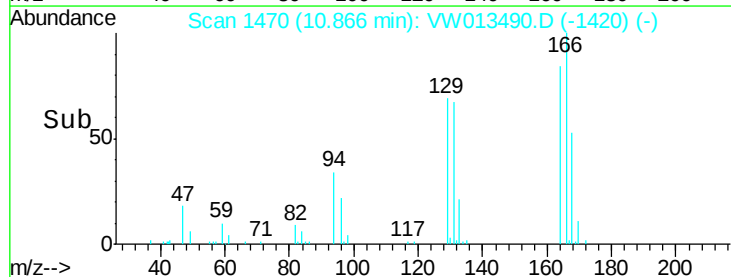
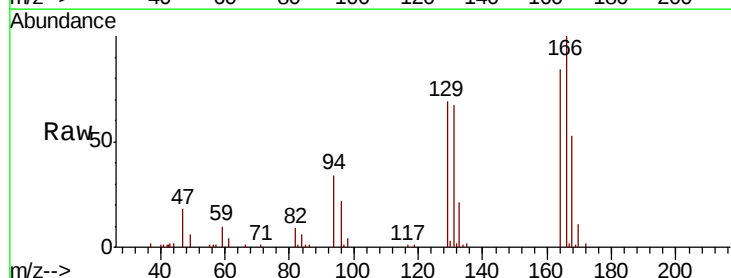
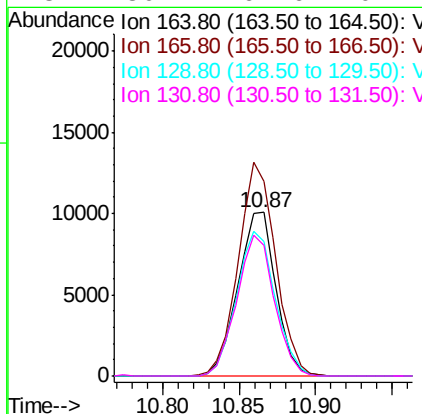
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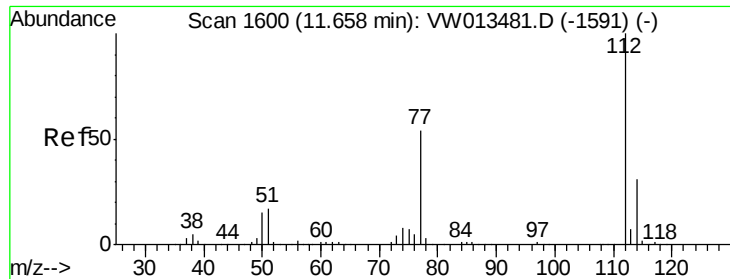
MMDadoda
10/9/2019 4:10:06 PM



#64
Tetrachloroethene
Concen: 5.463 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	17387		
166	119.4		104.6	156.8
129	82.2		70.2	105.2
131	80.2		67.6	101.4





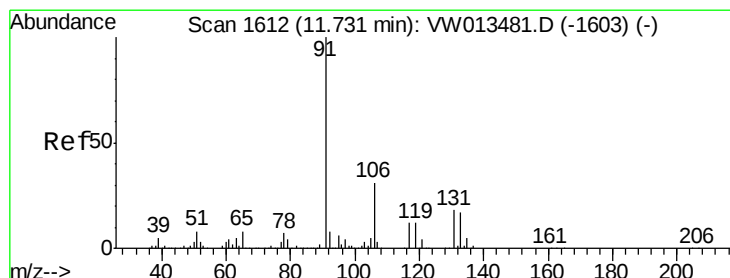
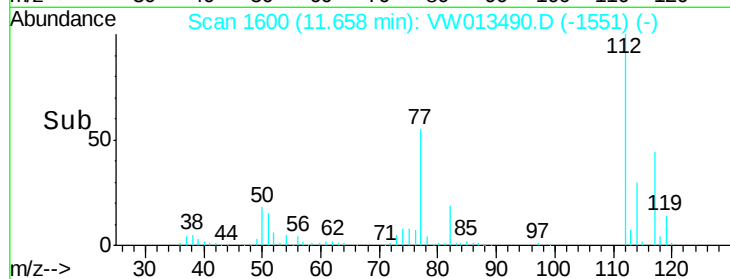
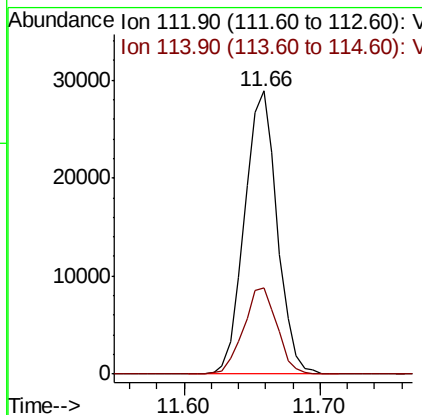
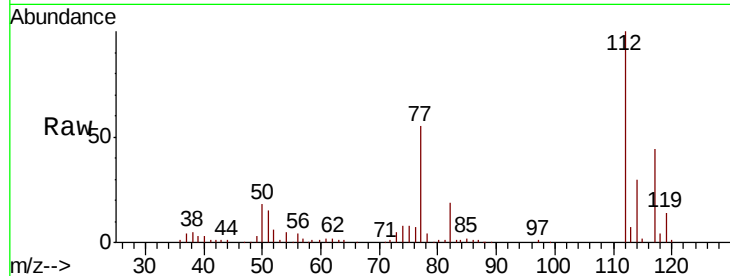
#65
Chlorobenzene
Concen: 5.638 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion:112 Resp: 48451
Ion Ratio Lower Upper
112 100
114 30.4 24.6 37.0

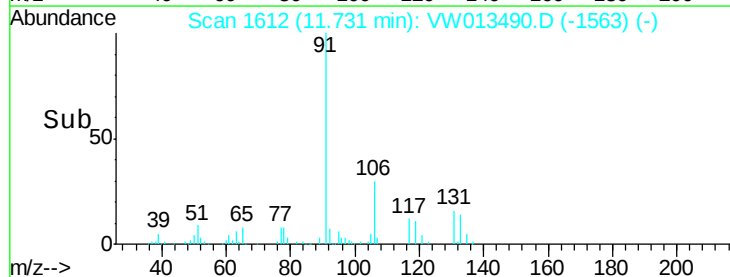
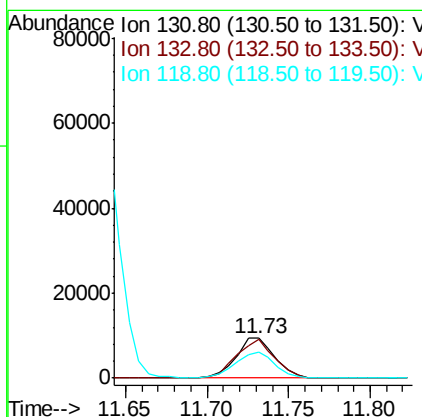
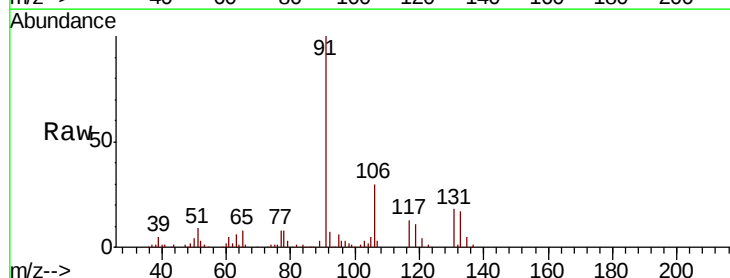
Manual Integrations
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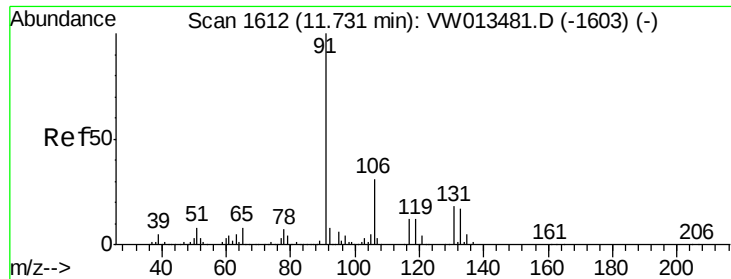
MMDadoda
10/9/2019 4:10:06 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 5.198 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion:131 Resp: 15516
Ion Ratio Lower Upper
131 100
133 96.1 47.6 142.9
119 67.0 32.6 98.0





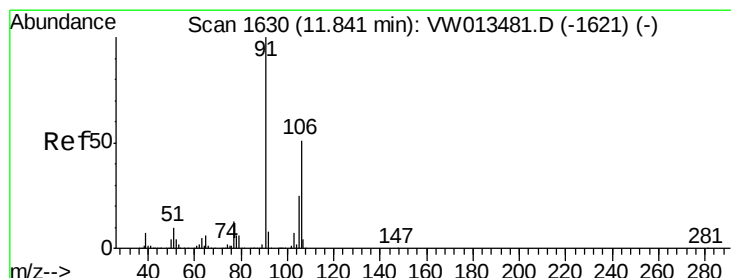
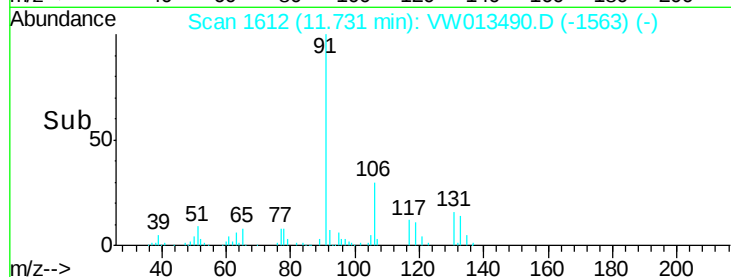
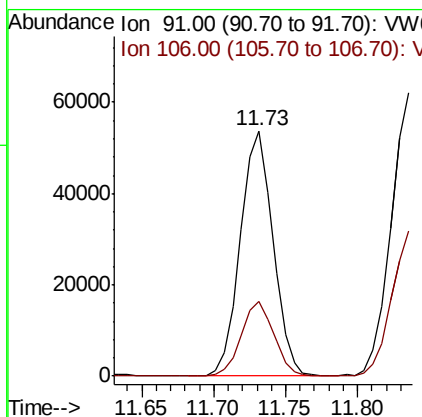
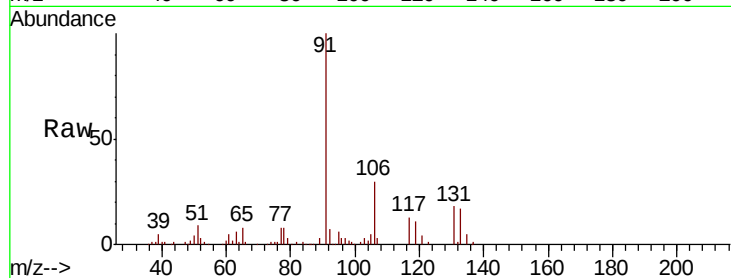
#67
Ethyl Benzene
Concen: 5.397 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.8	37.2

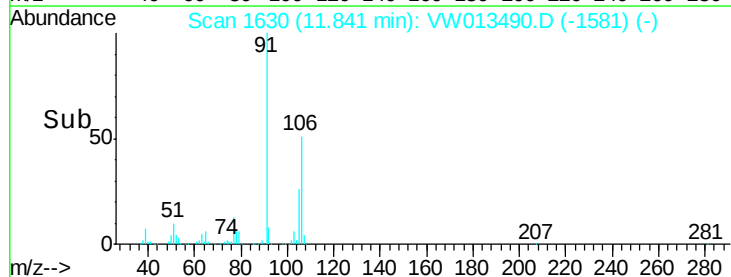
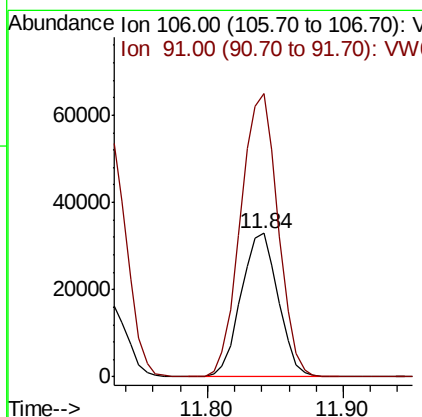
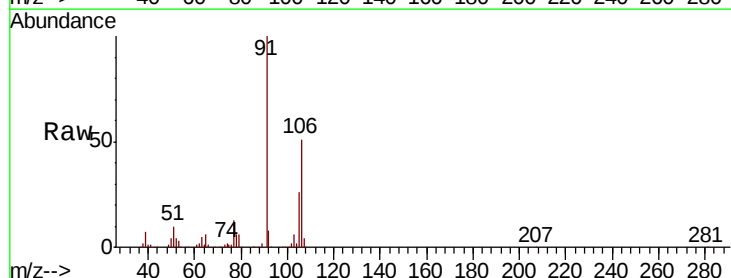
Manual Integrations
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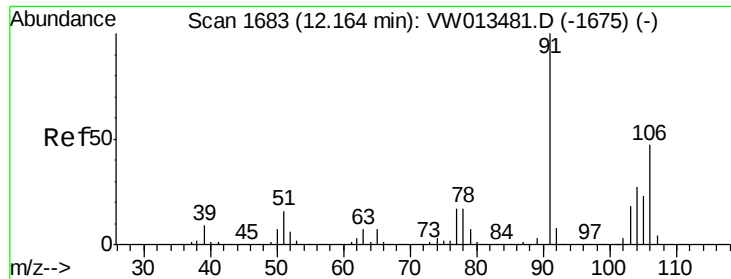
MMDadoda
10/9/2019 4:10:06 PM



#68
m/p-Xylenes
Concen: 10.570 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
106	100		
91	197.9	156.2	234.4





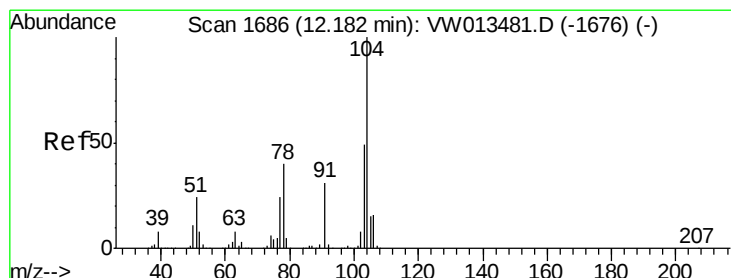
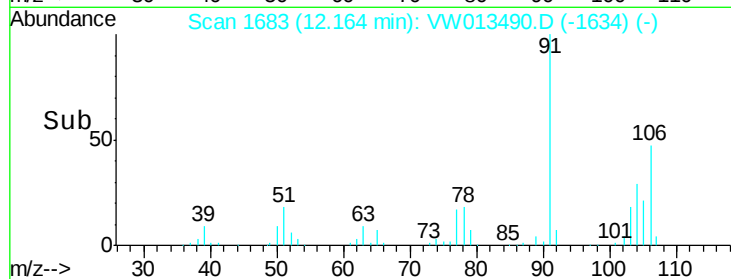
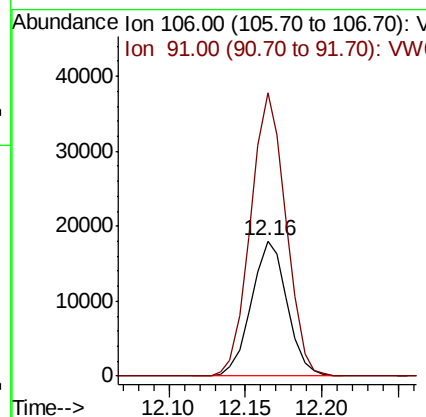
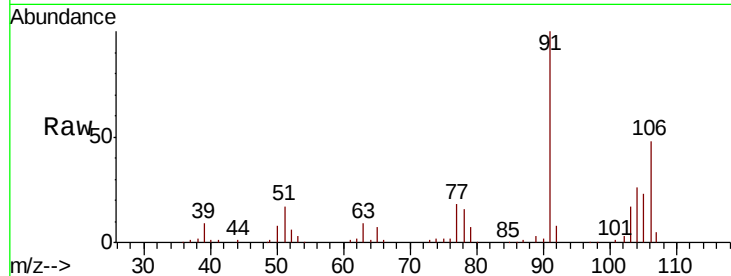
#69
o-Xylene
Concen: 5.291 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion:106 Resp: 29212
Ion Ratio Lower Upper
106 100
91 207.9 105.0 315.0

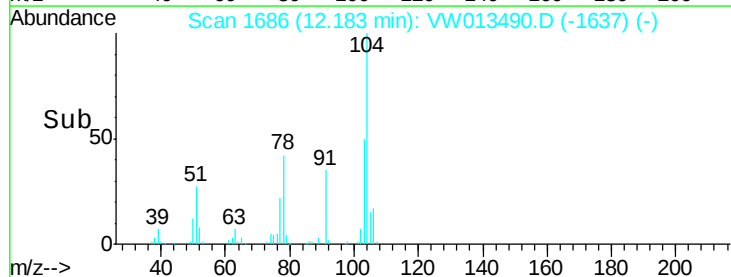
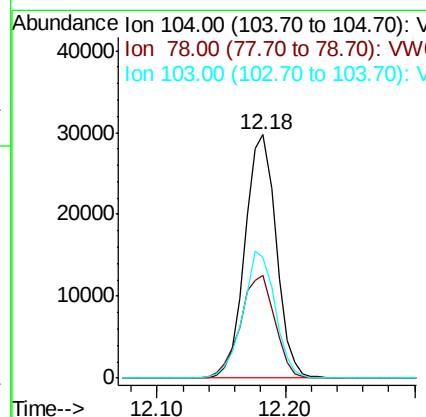
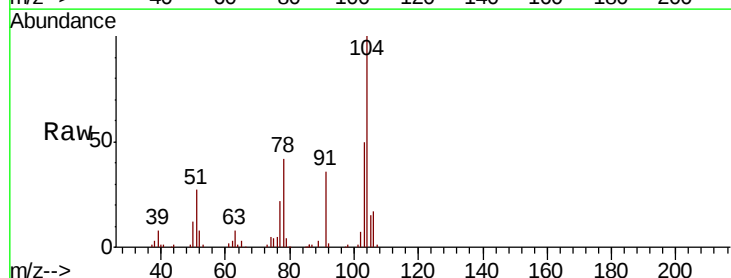
Manual Integrations
APPROVED

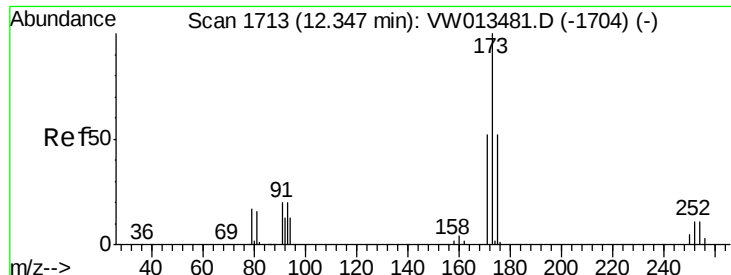
MMDadoda
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#70
Styrene
Concen: 5.245 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion:104 Resp: 49717
Ion Ratio Lower Upper
104 100
78 47.1 37.1 55.7
103 54.1 43.2 64.8





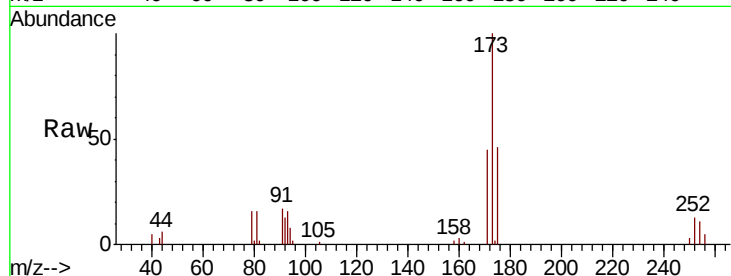
#71
Bromoform
Concen: 4.973 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

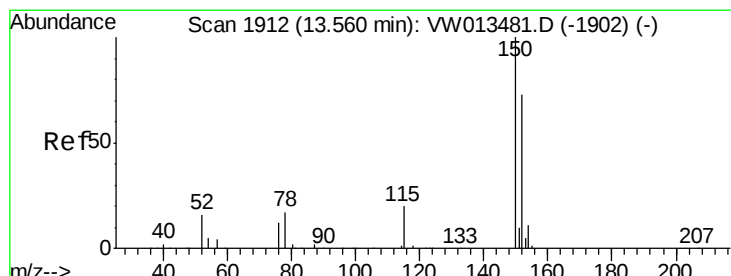
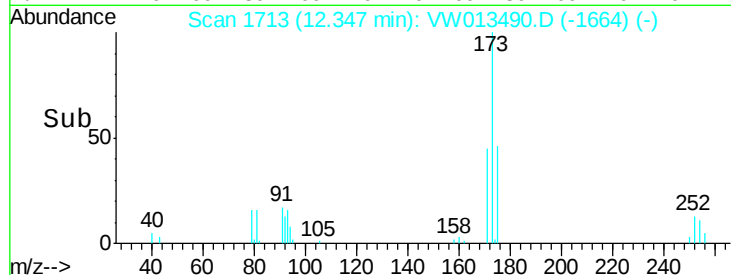
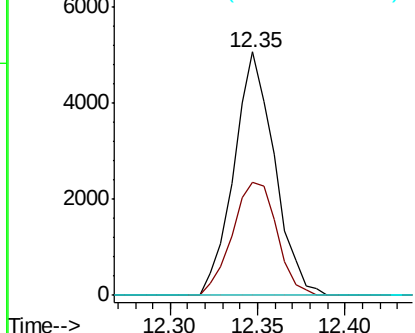
Tot Ion	Ratio	Lower	Upper
173	100		
175	51.1	24.4	73.4
254	0.0	0.1	0.1#

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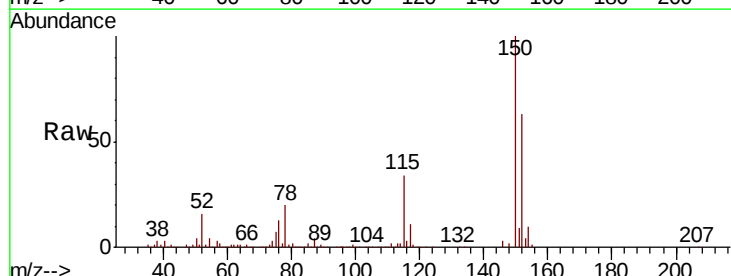


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

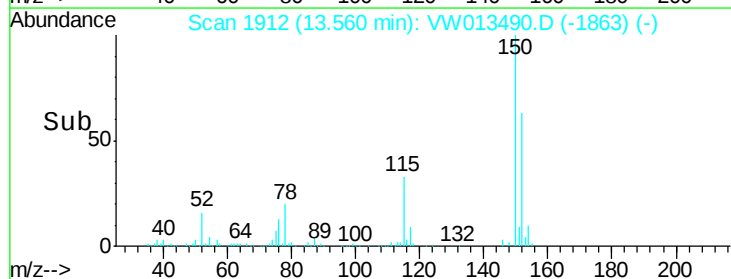
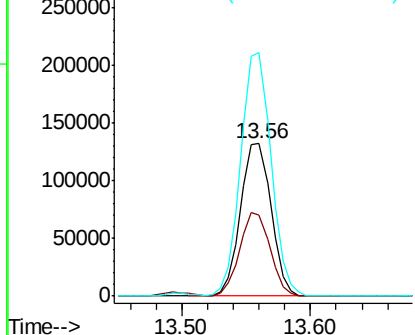


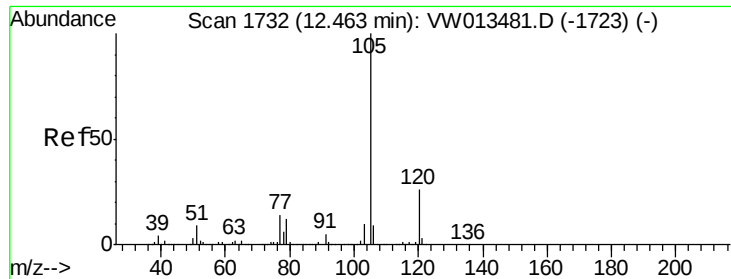
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.0	27.0	81.0
150	158.6	0.0	337.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





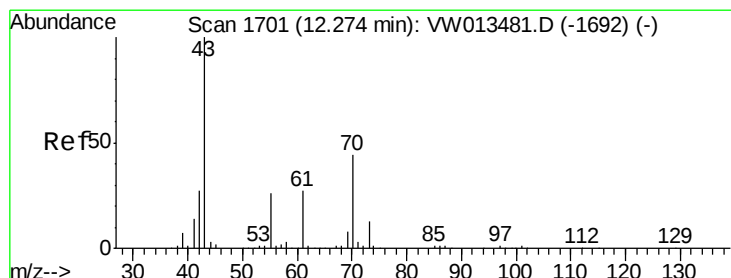
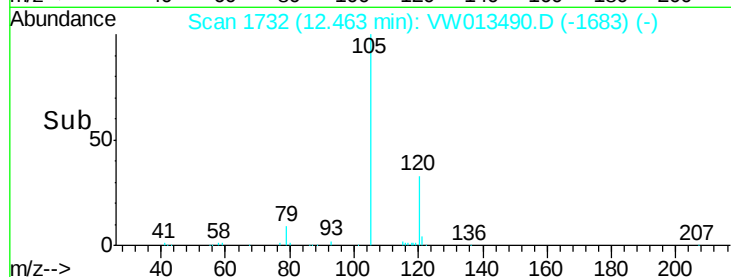
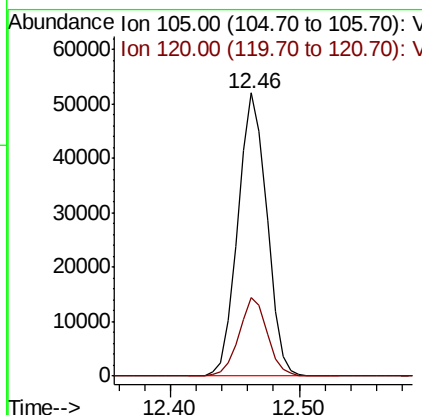
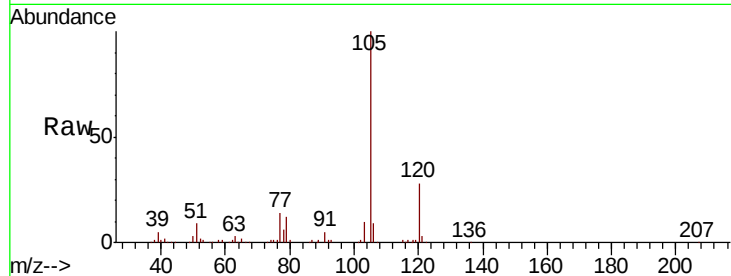
#73
Isopropylbenzene
Concen: 5.165 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.5	40.5

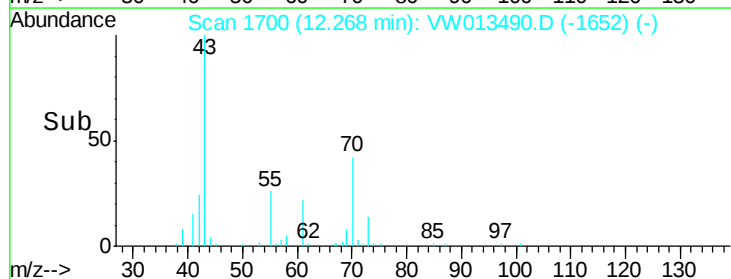
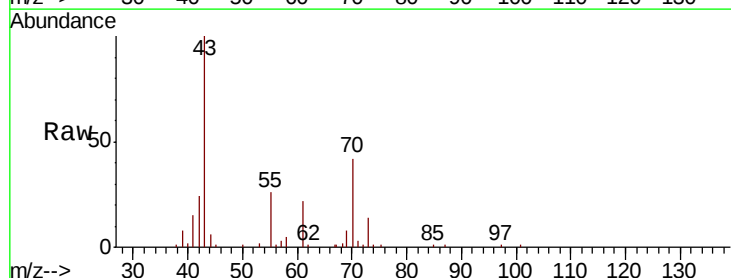
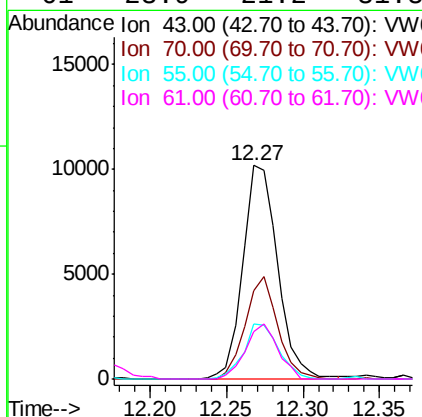
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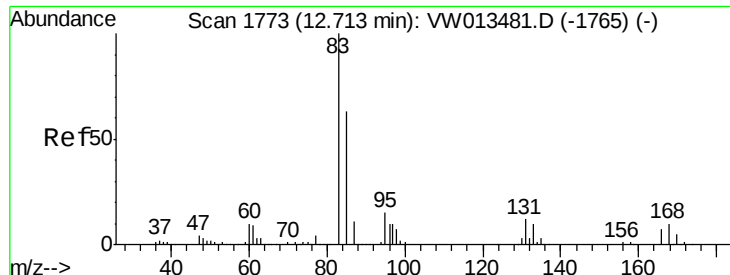
MMDadoda
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#74
N-ethyl acetate
Concen: 4.702 ug/l
RT: 12.27 min Scan# 1700
Delta R.T. -0.01 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
43	100		
70	44.5	35.3	52.9
55	26.0	20.0	30.0
61	23.9	21.2	31.8





#75

1,1,2,2-Tetrachloroethane

Concen: 5.269 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

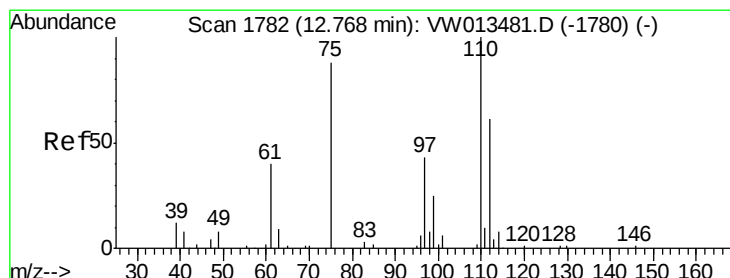
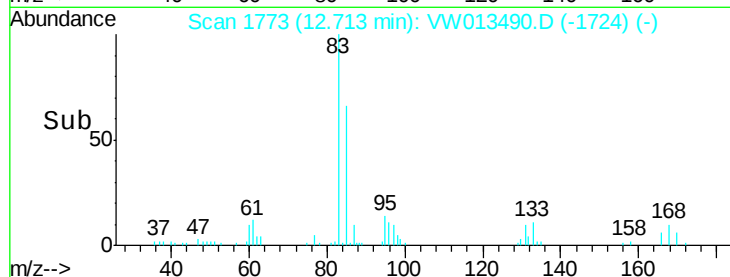
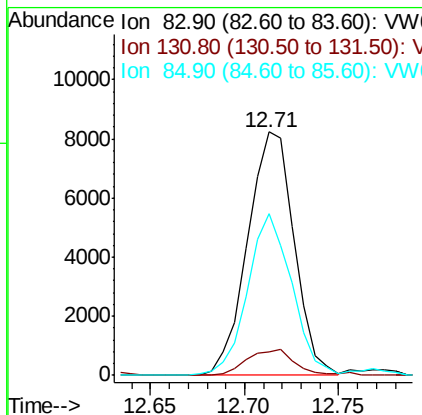
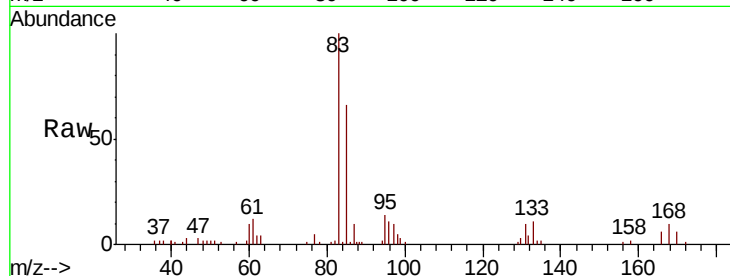
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	83	Resp:	14088
Ion Ratio	Lower	Upper	
83	100		
131	11.3	5.9	17.7
85	62.8	32.5	97.4

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 4.689 ug/l m

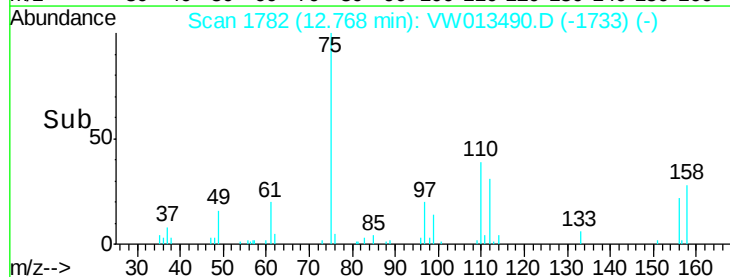
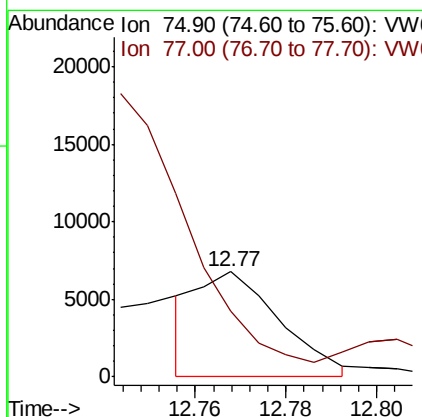
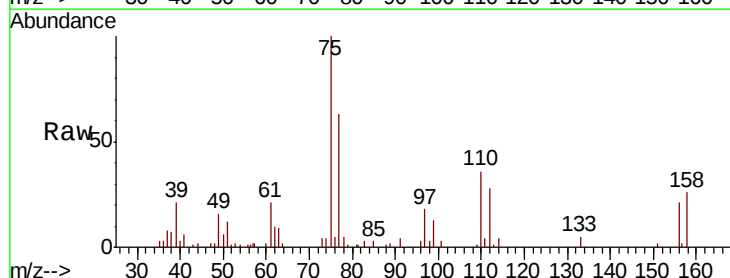
RT: 12.77 min Scan# 1782

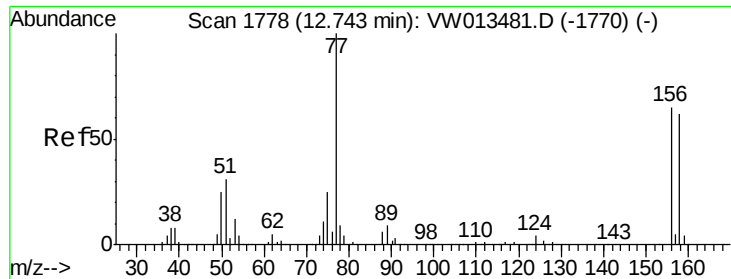
Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	75	Resp:	8552
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.384 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

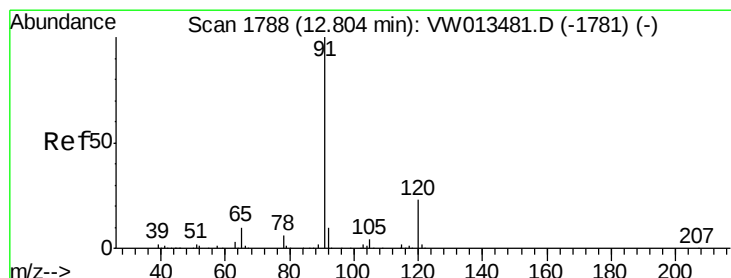
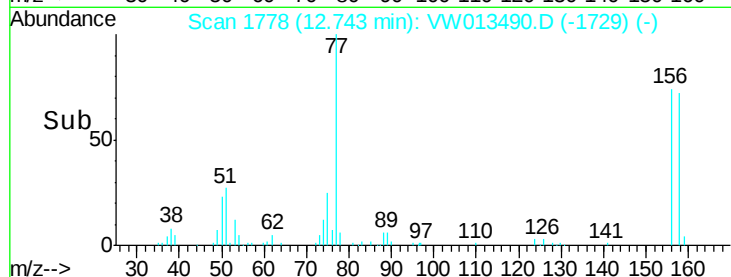
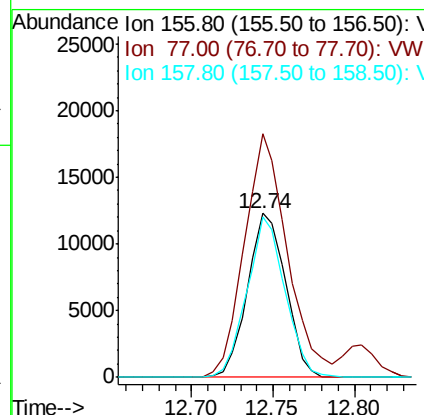
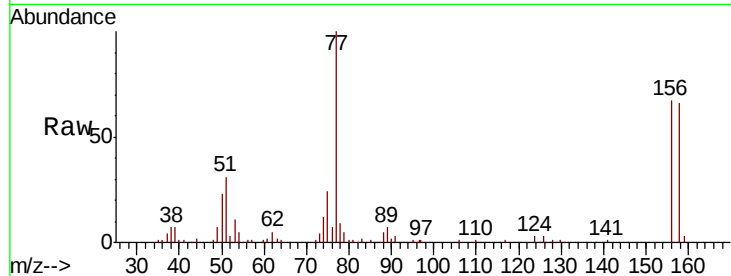
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	156	Resp:	20017
Ion Ratio	Lower	Upper	
156	100		
77	167.4	83.7	251.0
158	97.5	49.0	147.0

Manual Integrations
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#78

n-propylbenzene

Concen: 5.138 ug/l

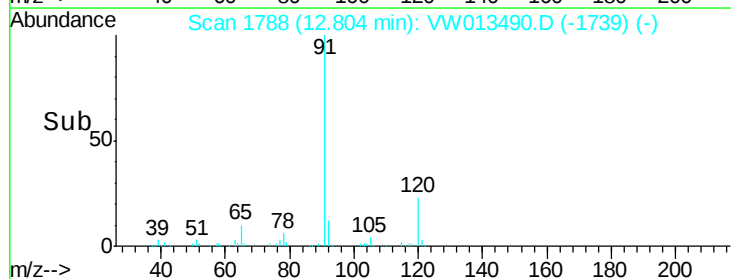
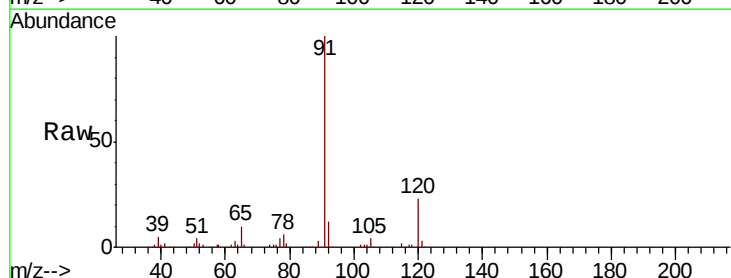
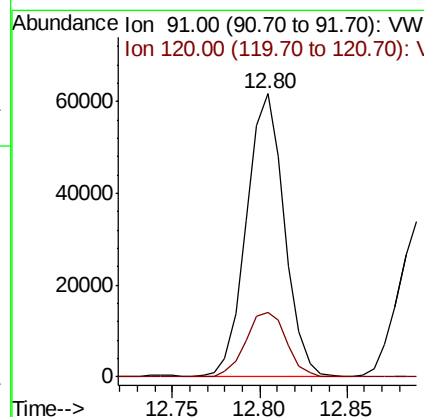
RT: 12.80 min Scan# 1788

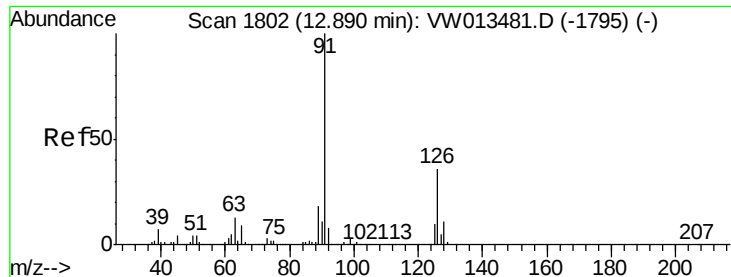
Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	91	Resp:	93201
Ion Ratio	Lower	Upper	
91	100		
120	24.6	11.7	35.1





#79

2-Chlorotoluene

Concen: 5.300 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 91 Resp: 53864

Ion Ratio Lower Upper

91 100

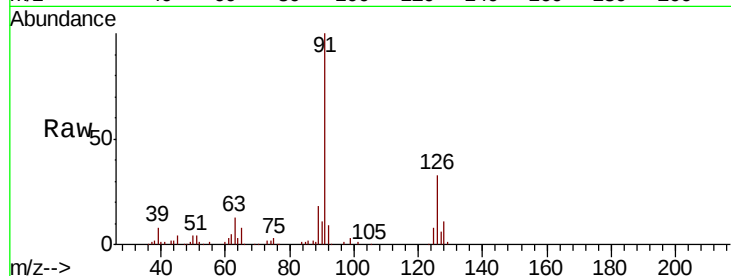
126 34.3 17.8 53.4

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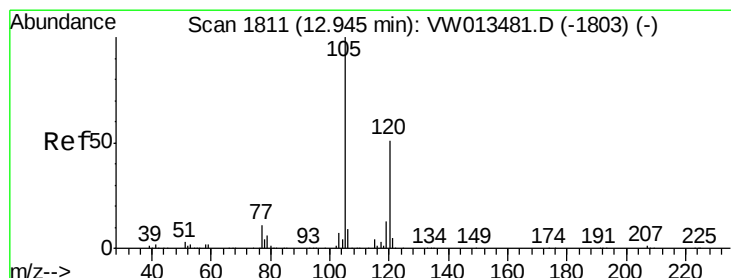
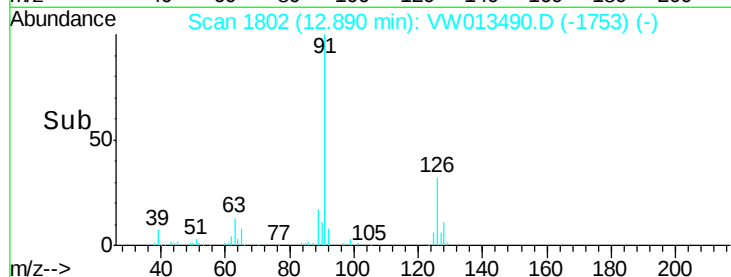
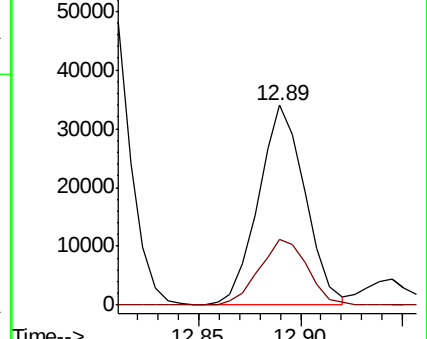
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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 5.251 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW013490.D

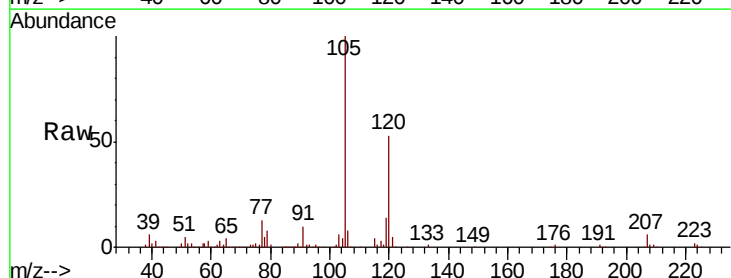
Acq: 08 Oct 2019 16:45

Tgt Ion: 105 Resp: 68445

Ion Ratio Lower Upper

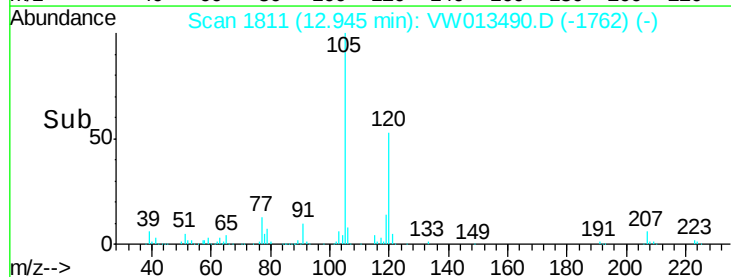
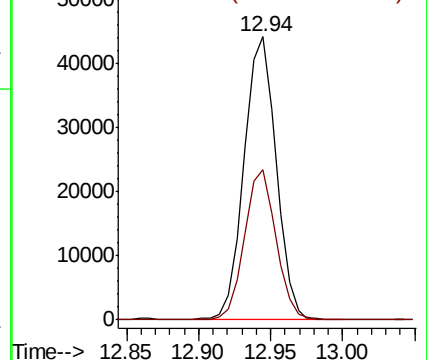
105 100

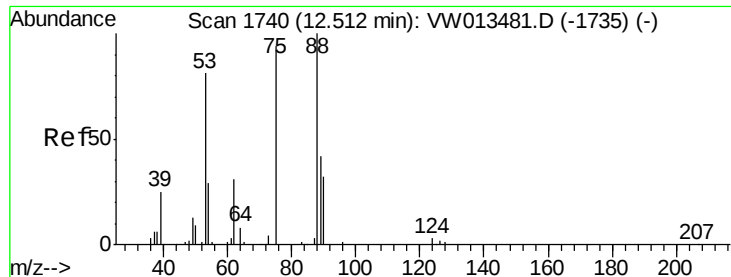
120 51.9 25.4 76.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 4.407 ug/l

RT: 12.52 min Scan# 1741

Delta R.T. 0.01 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

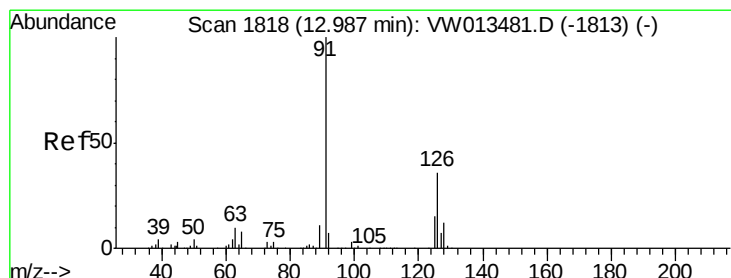
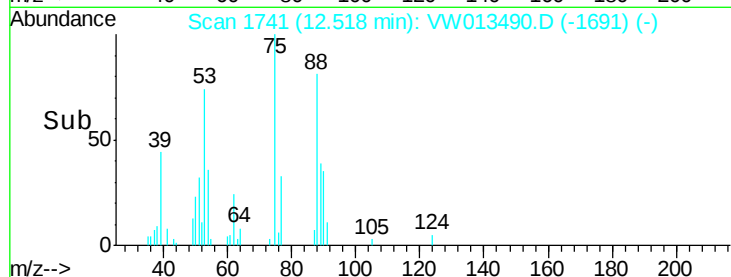
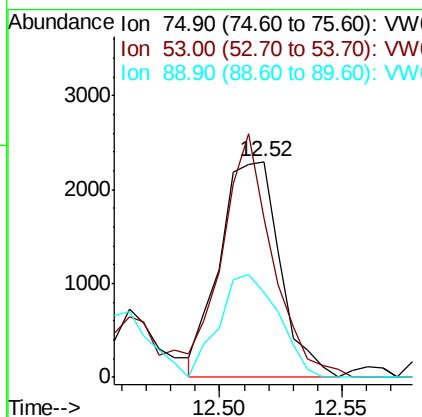
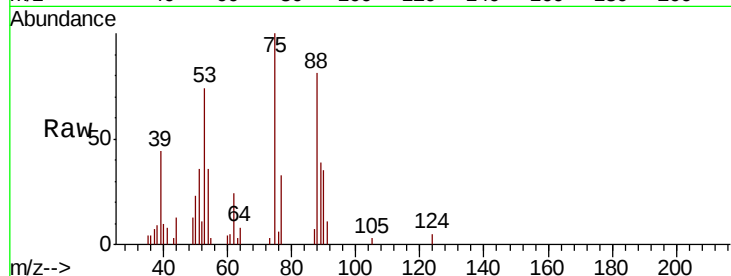
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	75	Resp:	3932
Ion	Ratio	Lower	Upper
75	100		
53	93.1	71.0	106.6
89	47.0	36.1	54.1

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#82

4-Chlorotoluene

Concen: 5.283 ug/l

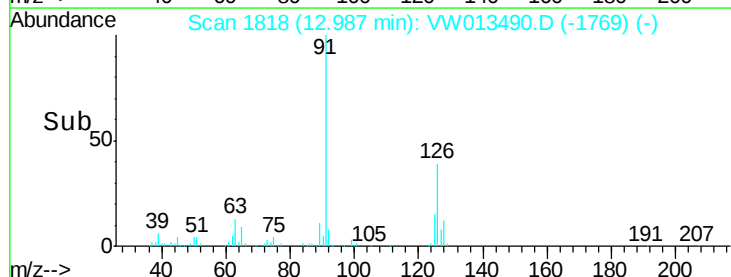
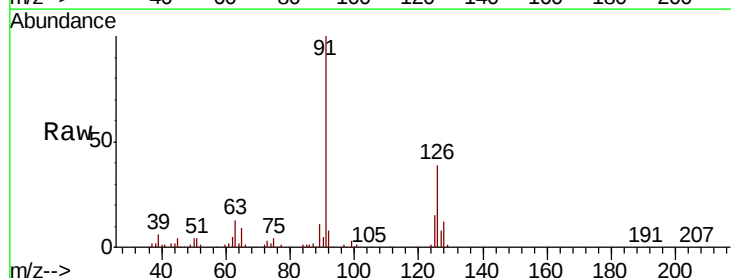
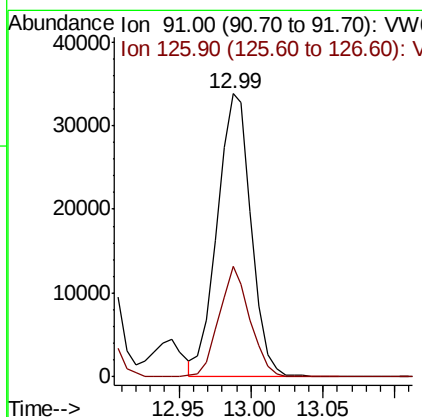
RT: 12.99 min Scan# 1818

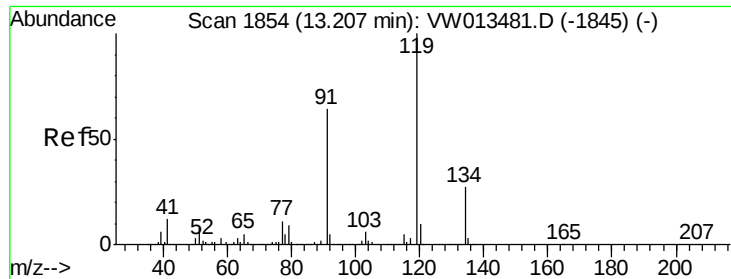
Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Tgt Ion:	91	Resp:	55719
Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.5	52.6





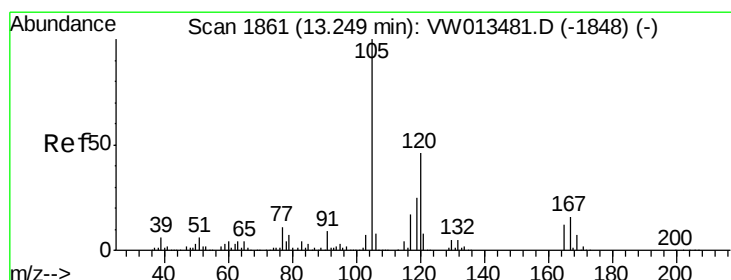
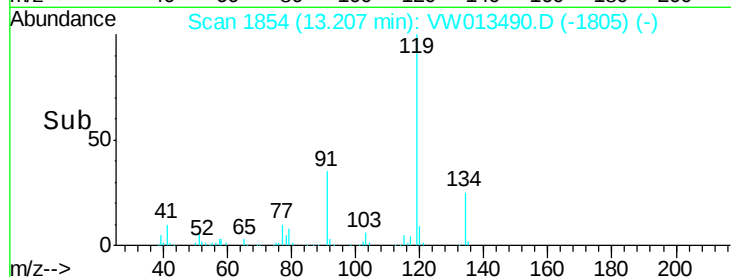
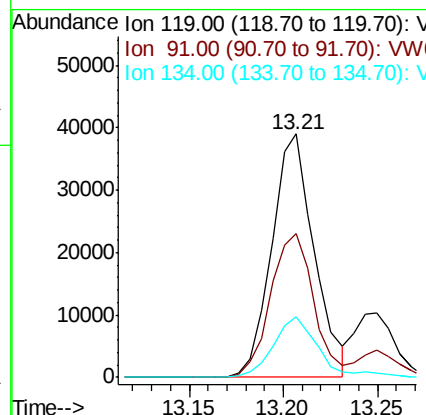
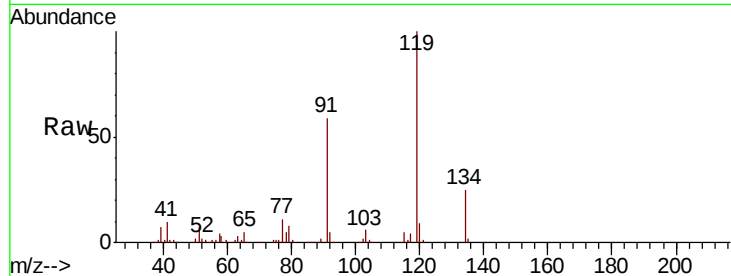
#83
tert-Butylbenzene
Concen: 5.262 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	59.7	30.6	91.6
134	25.1	13.8	41.3

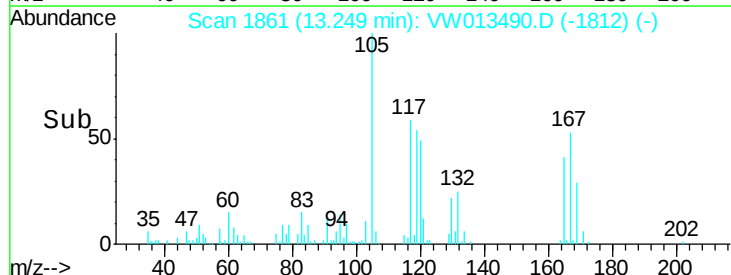
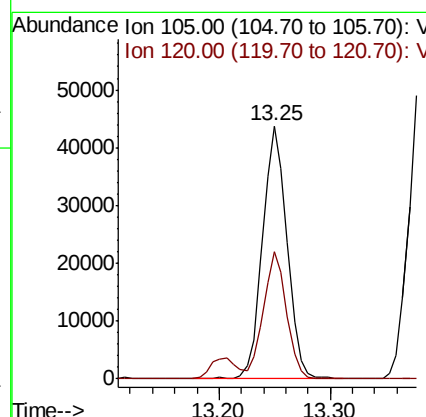
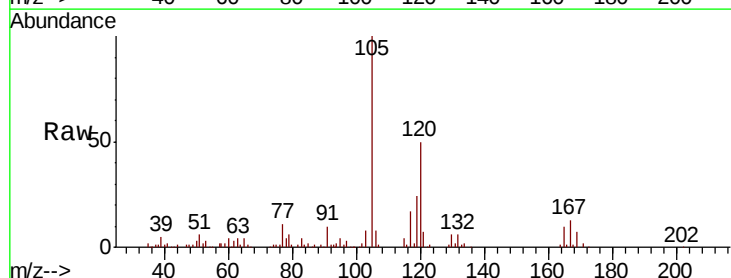
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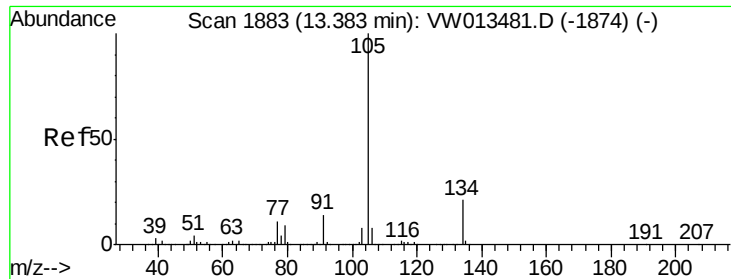
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#84
1,2,4-Trimethylbenzene
Concen: 5.245 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.2	69.5





#85

sec-Butylbenzene

Concen: 5.230 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:105 Resp: 83648

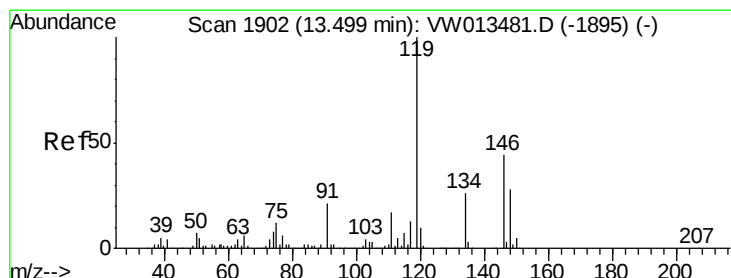
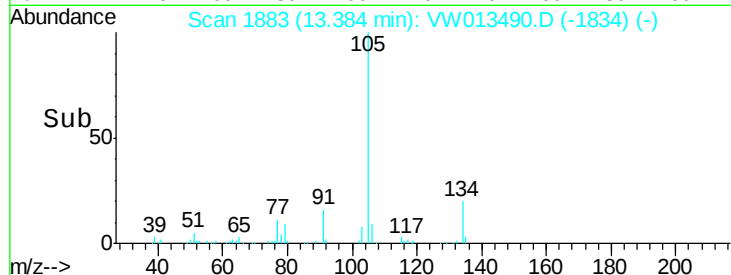
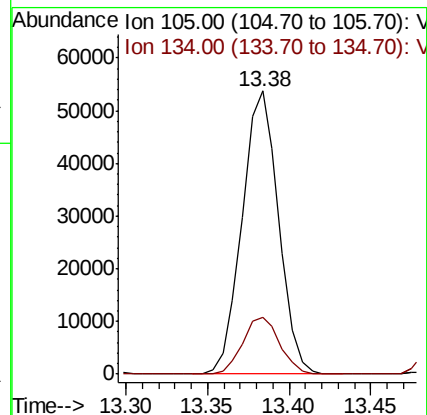
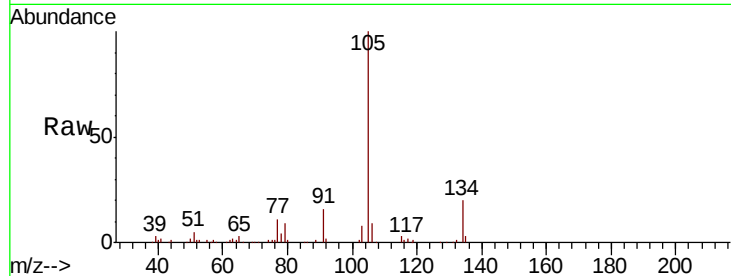
Ion Ratio Lower Upper

105 100

134 20.4 10.4 31.4

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 5.225 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013490.D

Acq: 08 Oct 2019 16:45

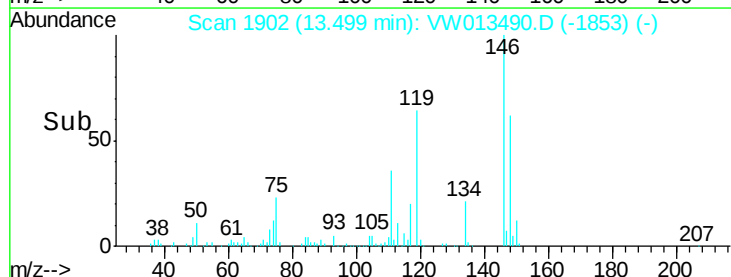
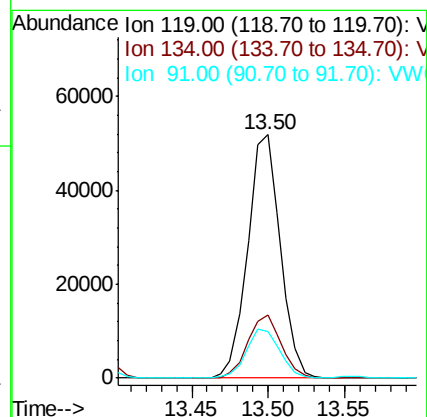
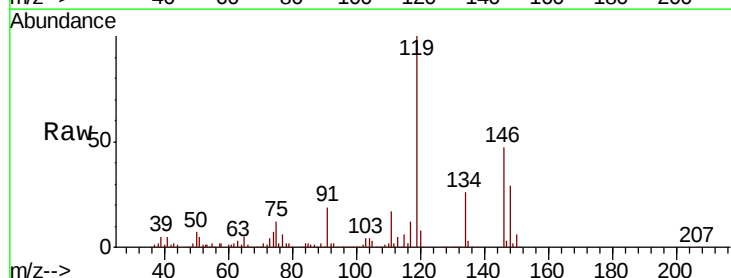
Tgt Ion:119 Resp: 76784

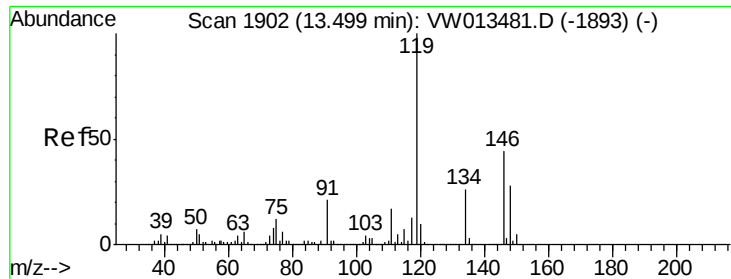
Ion Ratio Lower Upper

119 100

134 26.3 13.1 39.1

91 20.9 10.8 32.3





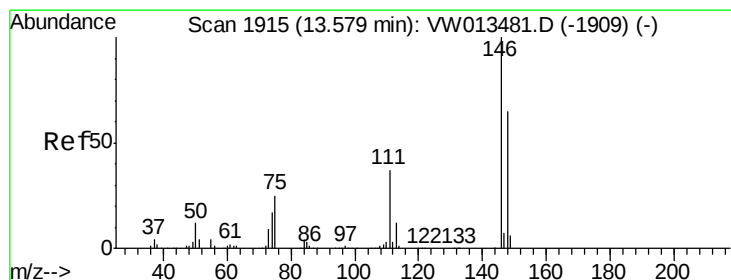
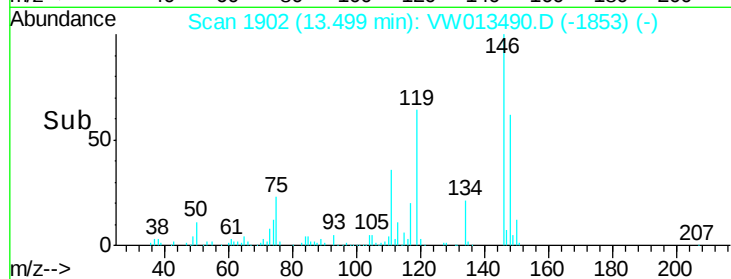
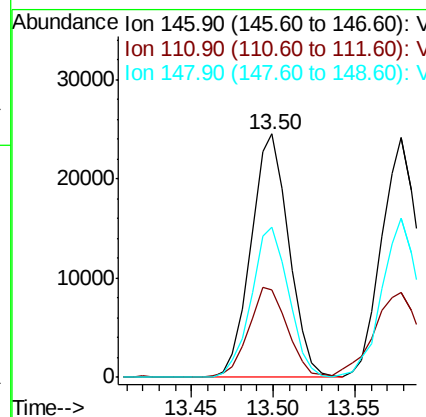
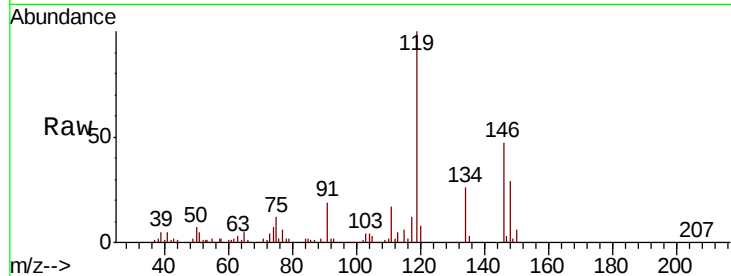
#87
 1,3-Dichlorobenzene
 Concen: 5.634 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
146	100	39720		
111	37.8	18.7	56.1	
148	60.9	32.3	96.8	

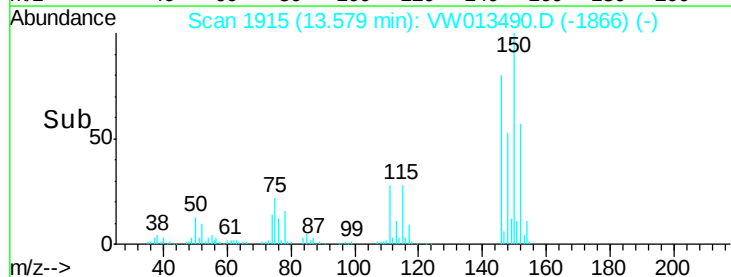
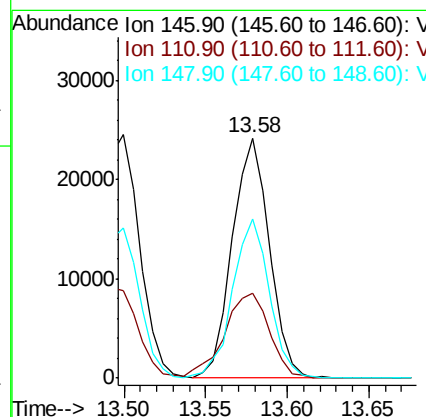
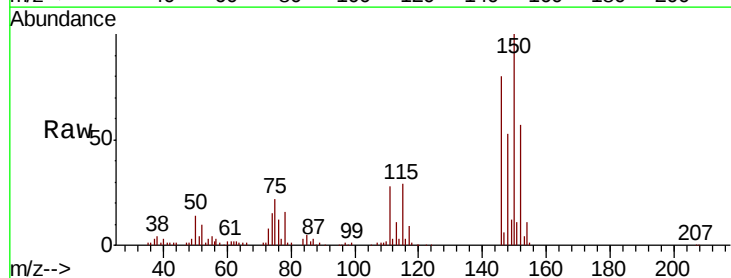
Manual Integrations
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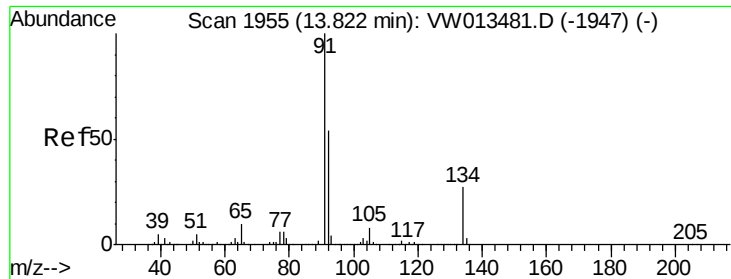
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#88
 1,4-Dichlorobenzene
 Concen: 5.560 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	38399		
111	42.9	18.4	55.4	
148	65.7	32.0	96.2	





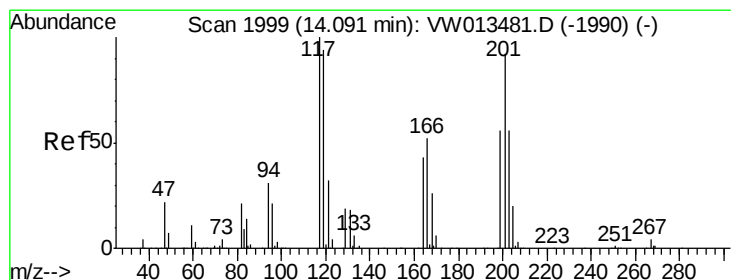
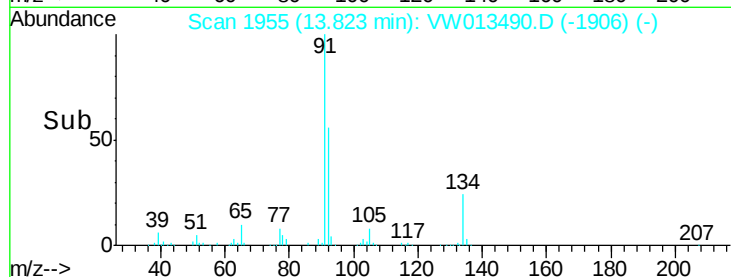
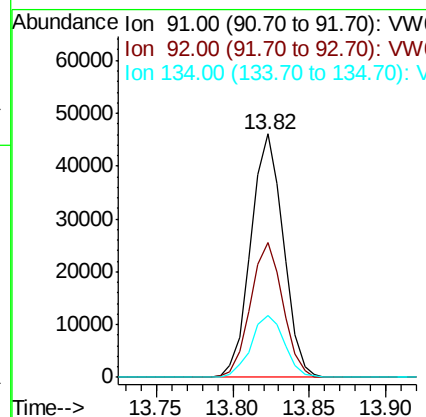
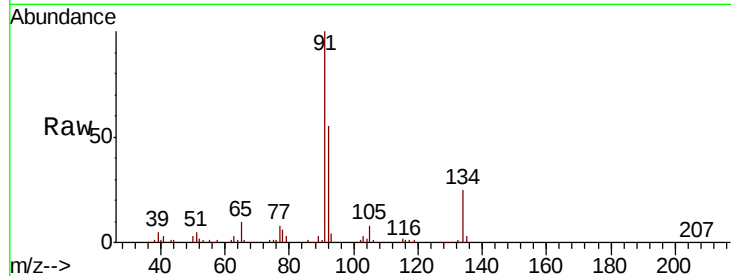
#89
n-Butylbenzene
Concen: 5.135 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.5	82.4
134	26.0	13.8	41.3

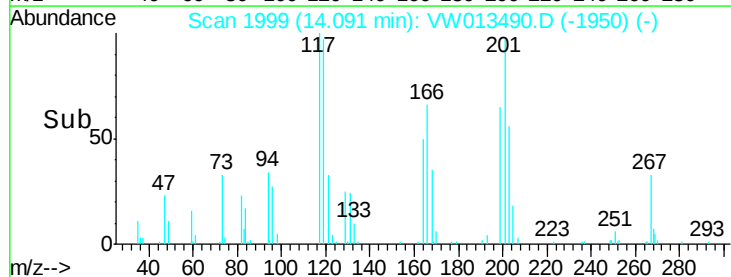
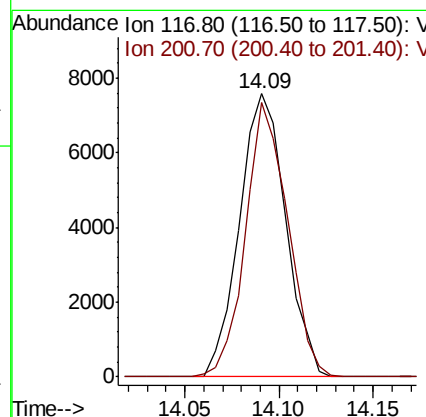
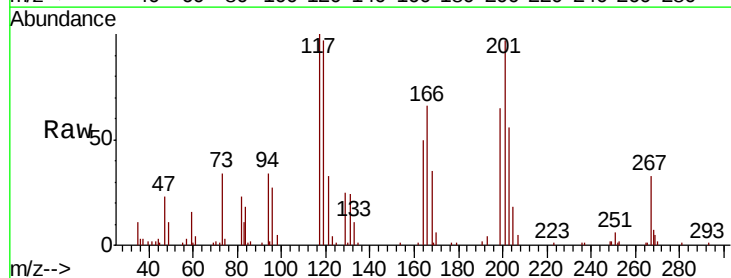
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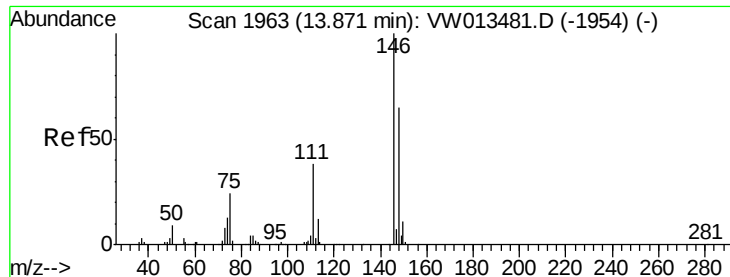
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#90
Hexachloroethane
Concen: 5.128 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.4	46.9	140.7





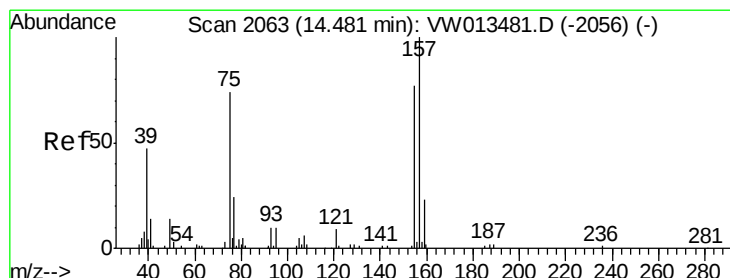
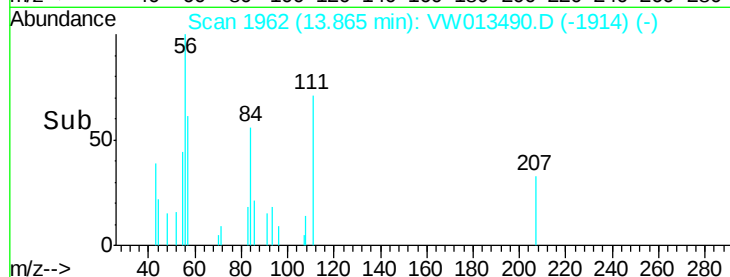
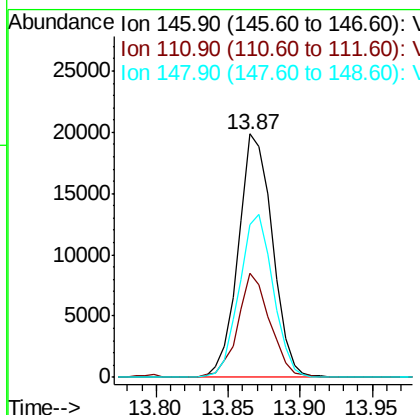
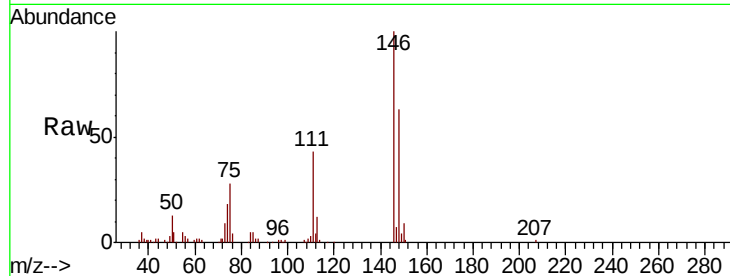
#91
 1,2-Dichlorobenzene
 Concen: 5.236 ug/l
 RT: 13.87 min Scan# 1962
 Delta R.T. -0.01 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	19.4	58.2
148	66.5	31.8	95.3

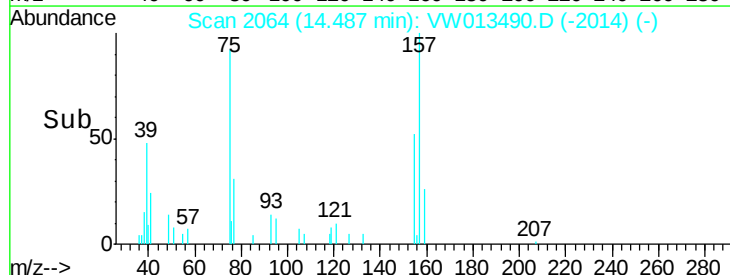
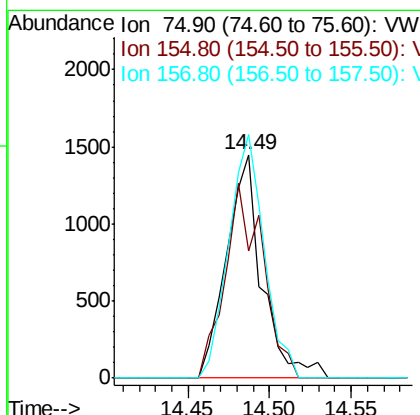
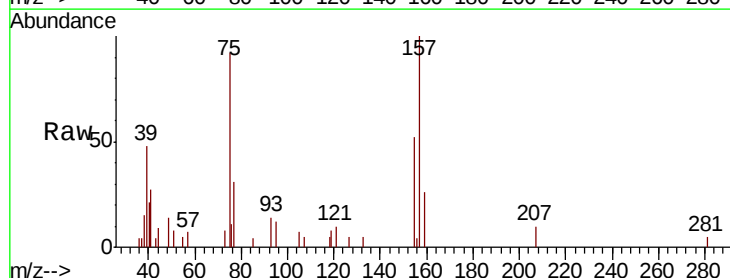
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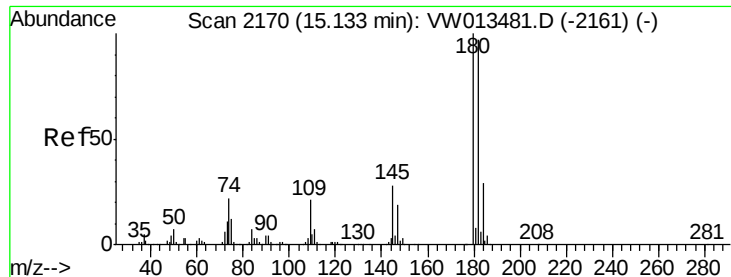
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.147 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.5	51.0	153.1
157	108.7	65.9	197.7





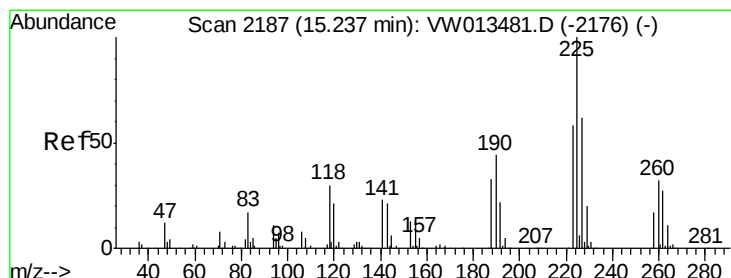
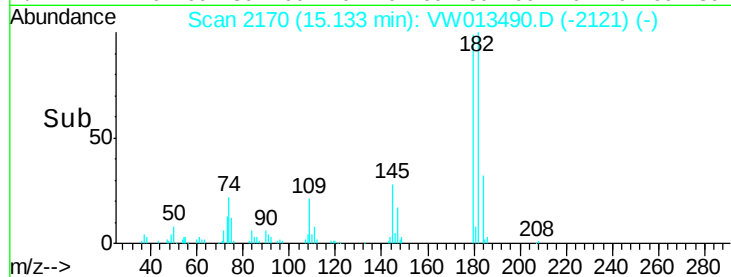
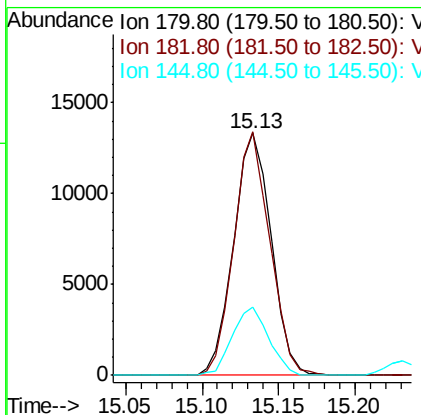
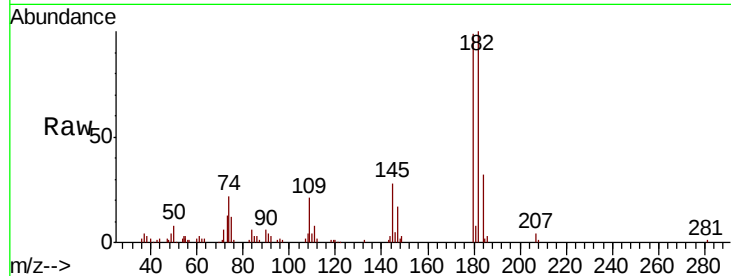
#93
 1,2,4-Trichlorobenzene
 Concen: 5.164 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.2	47.7	143.1	
145	27.2	14.0	41.9	

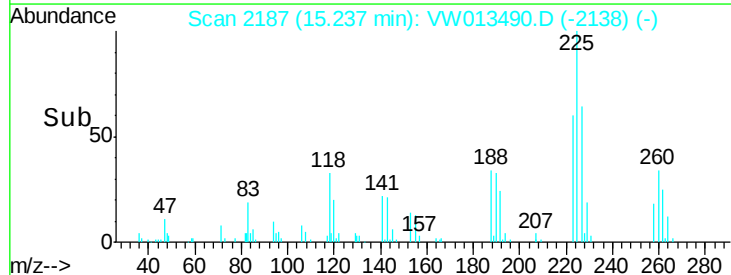
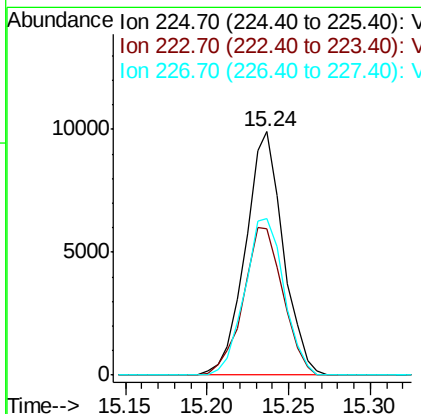
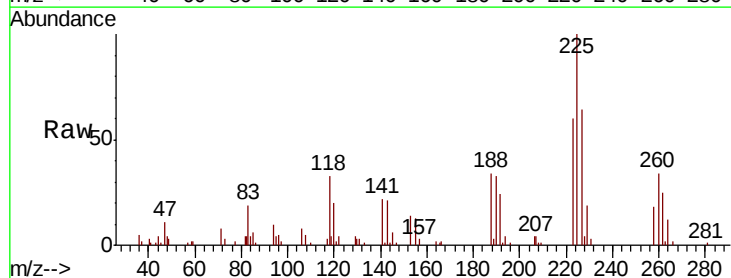
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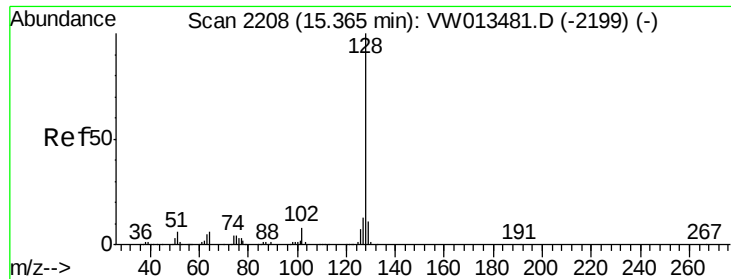
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#94
 Hexachlorobutadiene
 Concen: 5.438 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW013490.D
 Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.2	30.3	90.9	
227	66.9	32.0	96.0	





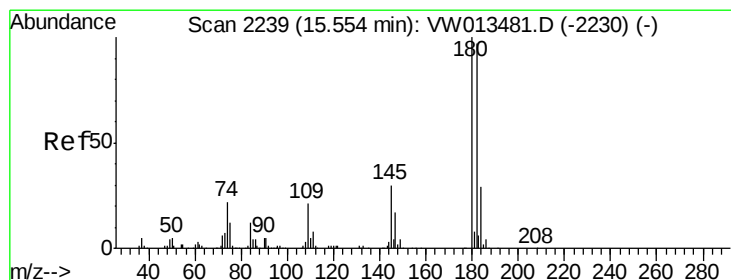
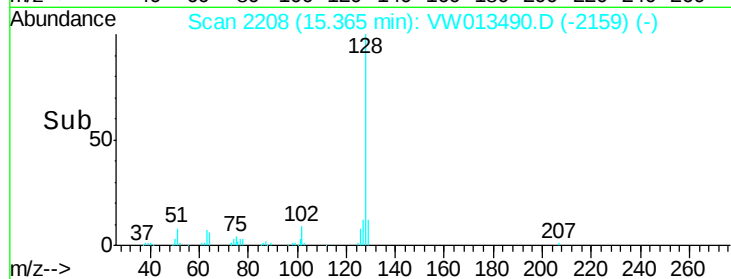
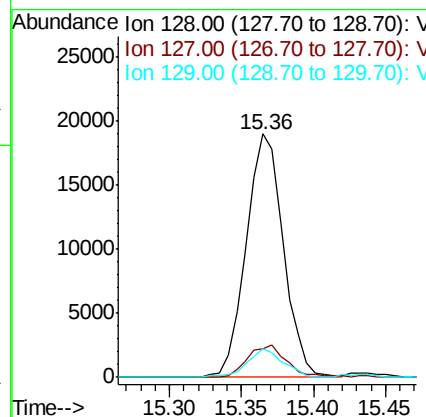
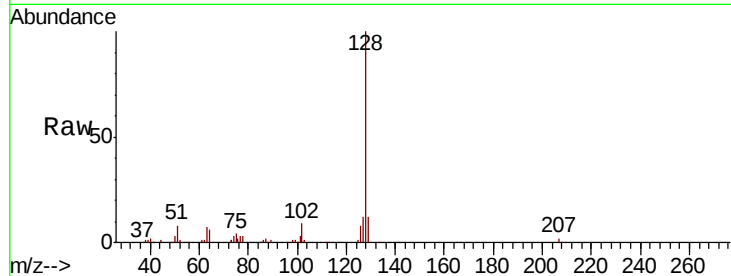
#95
Naphthalene
Concen: 4.463 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
128	100	33963		
127	14.1		10.6	16.0
129	11.2		8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 5.106 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VW013490.D
Acq: 08 Oct 2019 16:45

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	19643		
182	93.6		47.7	143.1
145	30.1		14.9	44.9

