

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111519\
 Data File : VD064219.D
 Acq On : 15 Nov 2019 11:17
 Operator : VA/SY
 Sample : VD1115SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 12:23:12 PM

Quant Time: Nov 16 05:37:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	643691	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	903757	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	778223	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	371056	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	262519	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
35) Dibromofluoromethane	7.91	113	268240	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
50) Toluene-d8	10.34	98	1006846	51.45	ug/l	0.00
Spiked Amount			Recovery	=	102.90%	
62) 4-Bromofluorobenzene	12.64	95	331369	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	113130	21.191	ug/l	98
3) Chloromethane	2.21	50	126483	22.088	ug/l	98
4) Vinyl Chloride	2.35	62	150239	24.535	ug/l	98
5) Bromomethane	2.76	94	99210	25.657	ug/l	97
6) Chloroethane	2.91	64	93092	23.791	ug/l	98
7) Trichlorofluoromethane	3.27	101	250917	25.273	ug/l	100
8) Diethyl Ether	3.70	74	56237	20.601	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.08	101	122737	21.630	ug/l	99
10) Methyl Iodide	4.29	142	123596	20.337	ug/l	99
11) Tert butyl alcohol	5.26	59	37815m	102.269	ug/l	
12) 1,1-Dichloroethene	4.06	96	117079	21.646	ug/l	90
13) Acrolein	3.92	56	24542	78.457	ug/l	96
14) Allyl chloride	4.71	41	188601	19.721	ug/l	94
15) Acrylonitrile	5.43	53	119616	102.784	ug/l	99
16) Acetone	4.17	43	102418	81.663	ug/l	97
17) Carbon Disulfide	4.39	76	351289	20.855	ug/l	97
18) Methyl Acetate	4.72	43	67991	19.410	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	258091	19.988	ug/l	97
20) Methylene Chloride	4.96	84	135344	21.364	ug/l	96
21) trans-1,2-Dichloroethene	5.47	96	128583	20.983	ug/l	94
22) Diisopropyl ether	6.36	45	357903	20.171	ug/l	96
23) Vinyl Acetate	6.31	43	1018710	102.995	ug/l	97
24) 1,1-Dichloroethane	6.26	63	212812	20.656	ug/l	99
25) 2-Butanone	7.22	43	155705	96.097	ug/l	98
26) 2,2-Dichloropropane	7.20	77	210308	20.815	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	137469	20.919	ug/l	97
28) Bromochloromethane	7.54	49	58305	16.255	ug/l	99
29) Tetrahydrofuran	7.57	42	100114	102.839	ug/l	98
30) Chloroform	7.71	83	229893	21.815	ug/l	97
31) Cyclohexane	7.98	56	213983	20.594	ug/l	95
32) 1,1,1-Trichloroethane	7.90	97	212276	21.036	ug/l	99
36) 1,1-Dichloropropene	8.11	75	177213	21.246	ug/l	100
37) Ethyl Acetate	7.30	43	71662	20.380	ug/l	97
38) Carbon Tetrachloride	8.10	117	191077	21.409	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	224405	21.262	ug/l	95
40) Benzene	8.35	78	475238	20.848	ug/l	96
41) Methacrylonitrile	7.54	41	43953	19.887	ug/l	88
42) 1,2-Dichloroethane	8.43	62	141750	20.704	ug/l	99
43) Isopropyl Acetate	8.46	43	143928	19.866	ug/l	99
44) Trichloroethene	9.11	130	144776	21.161	ug/l	100
45) 1,2-Dichloropropane	9.39	63	113772	20.505	ug/l	97
46) Dibromomethane	9.48	93	61179	20.596	ug/l	98
47) Bromodichloromethane	9.67	83	167354	20.916	ug/l	98
48) Methyl methacrylate	9.46	41	66760	18.844	ug/l	94
49) 1,4-Dioxane	9.47	88	15427	432.439	ug/l	94
51) 4-Methyl-2-Pentanone	10.23	43	347720	100.083	ug/l	99
52) Toluene	10.40	92	309555	20.651	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	160043	19.966	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	191949	20.521	ug/l	97
55) 1,1,2-Trichloroethane	10.80	97	85070	21.111	ug/l	98
56) Ethyl methacrylate	10.67	69	113588	20.151	ug/l #	94
57) 1,3-Dichloropropane	10.95	76	145918	20.764	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	228470	100.060	ug/l	99
59) 2-Hexanone	10.98	43	240939	97.476	ug/l	98
60) Dibromochloromethane	11.14	129	114959	20.445	ug/l	97
61) 1,2-Dibromoethane	11.25	107	85723	21.240	ug/l	97
64) Tetrachloroethene	10.88	164	130418	21.790	ug/l	97
65) Chlorobenzene	11.67	112	326127	20.608	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.74	131	123417	20.510	ug/l	99
67) Ethyl Benzene	11.75	91	602900	21.062	ug/l	99
68) m/p-Xylenes	11.86	106	457939	41.737	ug/l	99
69) o-Xylene	12.18	106	212164	20.850	ug/l	100
70) Styrene	12.20	104	365922	20.601	ug/l	99
71) Bromoform	12.37	173	71897	20.995	ug/l #	99
73) Isopropylbenzene	12.48	105	592948	21.771	ug/l	99
74) N-amyl acetate	12.29	43	130974	20.364	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.74	83	91098	22.198	ug/l	96
76) 1,2,3-Trichloropropane	12.79	75	55589m	18.599	ug/l	
77) Bromobenzene	12.77	156	139107	21.024	ug/l	98
78) n-propylbenzene	12.83	91	675689	21.715	ug/l	100
79) 2-Chlorotoluene	12.91	91	367679	20.929	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	475014	21.226	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	28716	19.085	ug/l	92
82) 4-Chlorotoluene	13.01	91	387844	21.166	ug/l	99
83) tert-Butylbenzene	13.23	119	428039	21.691	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	463445	20.976	ug/l	99
85) sec-Butylbenzene	13.41	105	566960	21.391	ug/l	100
86) p-Isopropyltoluene	13.52	119	536452	21.290	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	260609	21.218	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	256339	21.384	ug/l	99
89) n-Butylbenzene	13.85	91	490999	21.569	ug/l	99
90) Hexachloroethane	14.12	117	99350	21.335	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	223270	21.477	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	14714	20.053	ug/l	98

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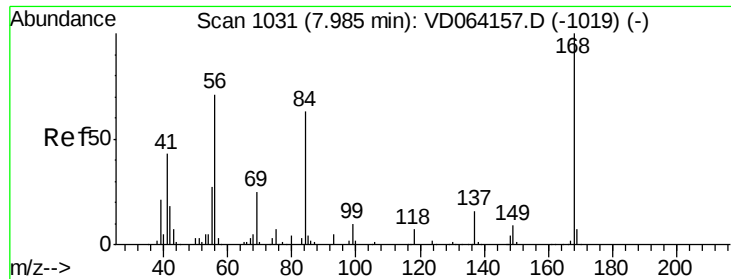
Manual Integrations
APPROVED

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	167286	20.860	ug/l	98
94) Hexachlorobutadiene	15.27	225	109200	21.082	ug/l	98
95) Naphthalene	15.41	128	282536	21.492	ug/l	100
96) 1,2,3-Trichlorobenzene	15.61	180	144578	21.209	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion:168 Resp: 643691

Ion Ratio Lower Upper

168 100

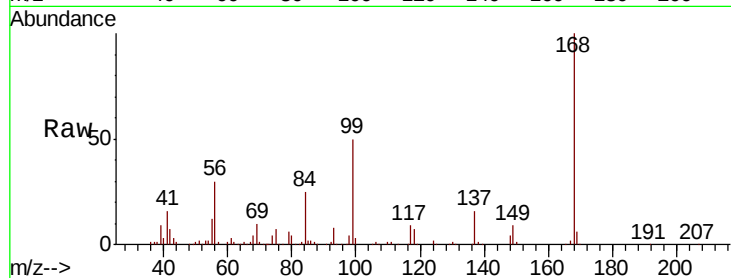
99 50.0 41.6 62.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

300000

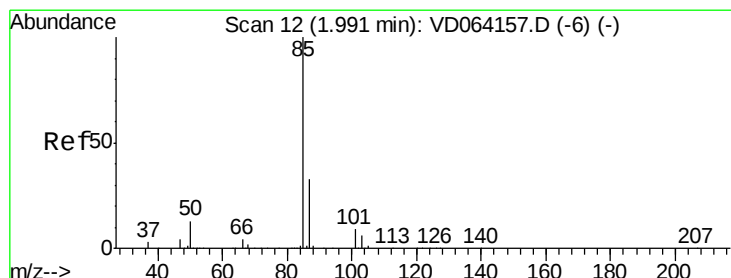
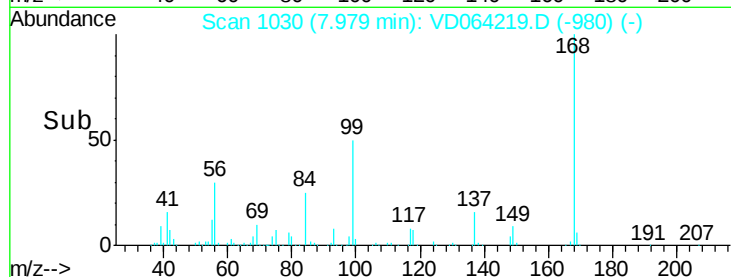
200000

100000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.191 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD064219.D

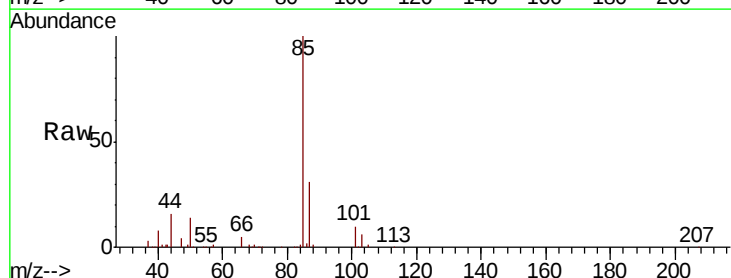
Acq: 15 Nov 2019 11:17

Tgt Ion: 85 Resp: 113130

Ion Ratio Lower Upper

85 100

87 31.4 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

80000

60000

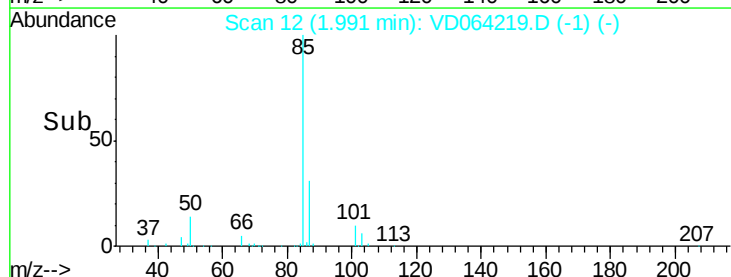
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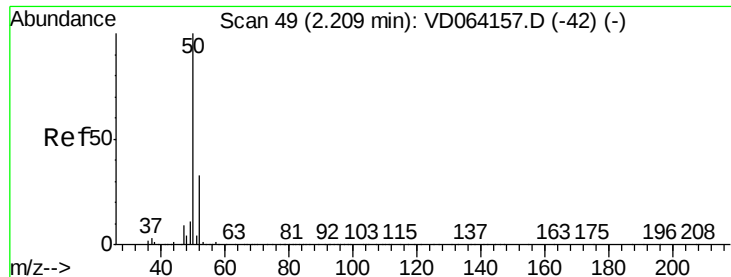
20000

0

1.95 2.00 2.05

Time-->





#3

Chloromethane

Concen: 22.088 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 50 Resp: 126483

Ion Ratio Lower Upper

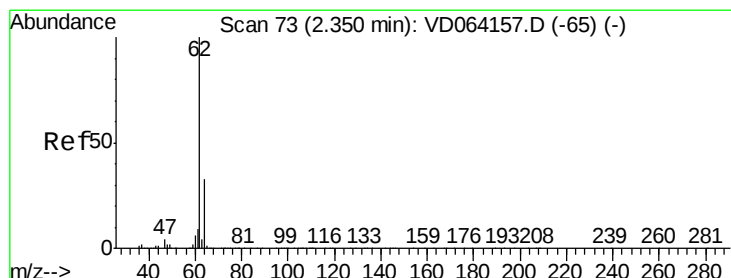
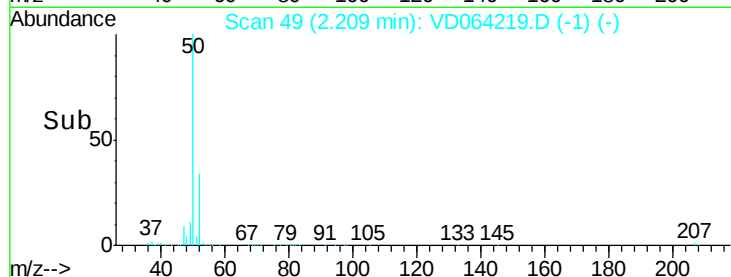
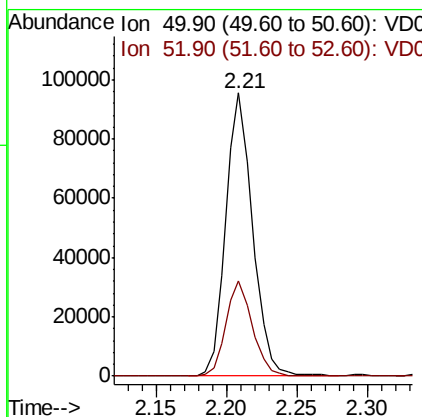
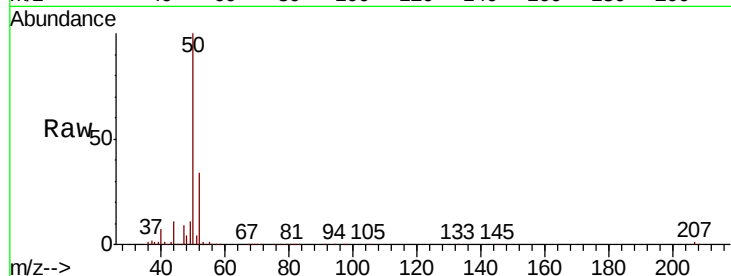
50 100

52 33.7 26.2 39.4

Manual Integrations
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11/19/2019 12:23:12 PM



#4

Vinyl Chloride

Concen: 24.535 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD064219.D

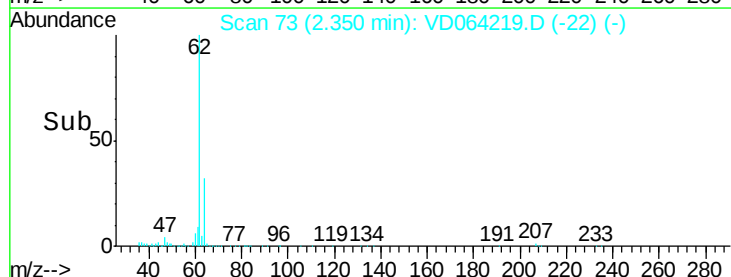
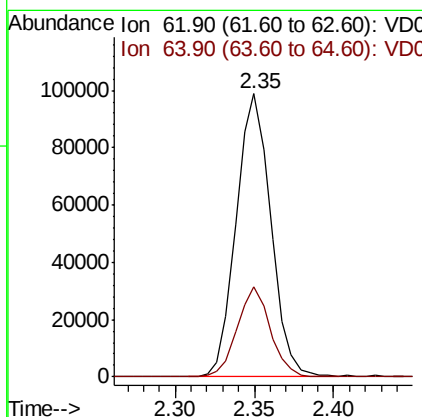
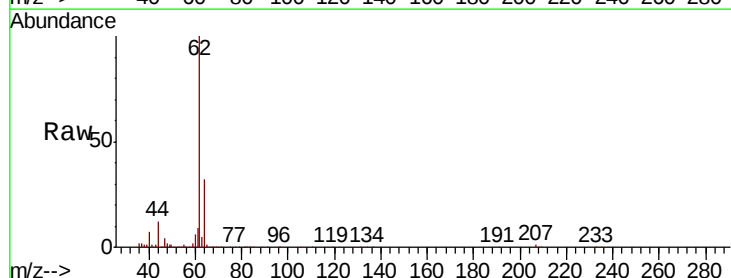
Acq: 15 Nov 2019 11:17

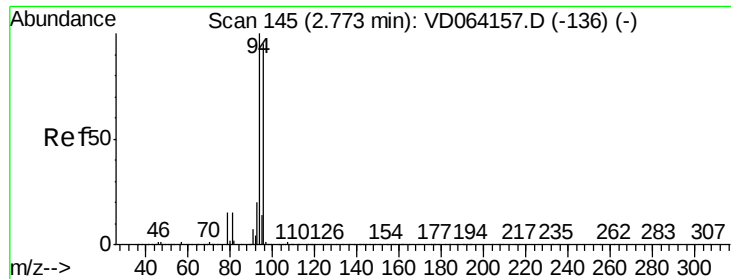
Tgt Ion: 62 Resp: 150239

Ion Ratio Lower Upper

62 100

64 31.8 26.2 39.2





#5

Bromomethane

Concen: 25.657 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 94 Resp: 99210

Ion Ratio Lower Upper

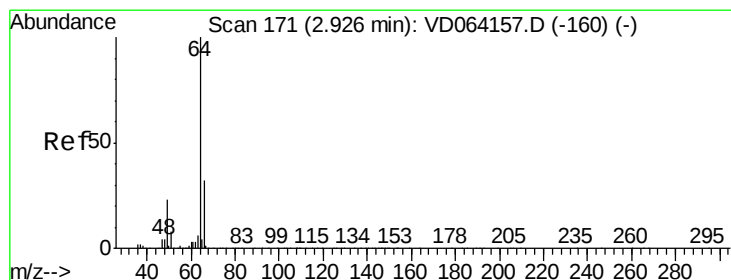
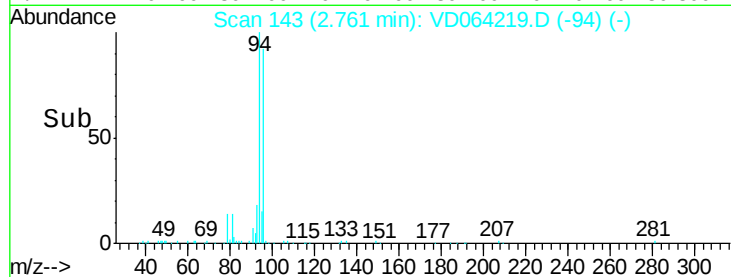
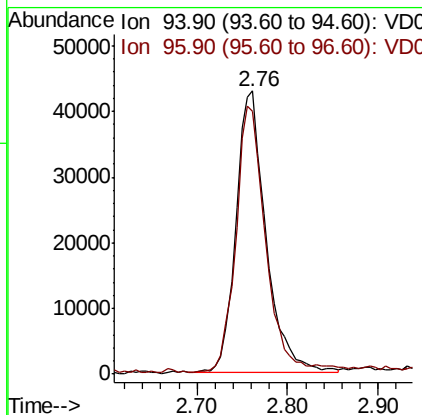
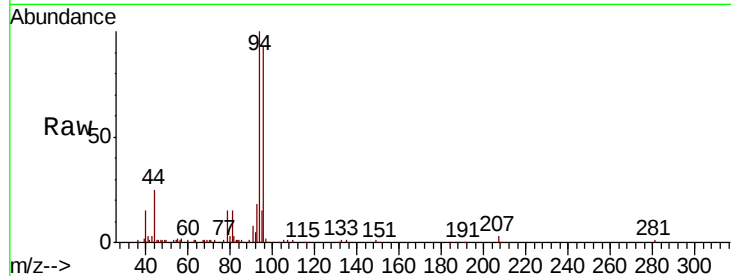
94 100

96 92.7 76.2 114.4

Manual Integrations
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#6

Chloroethane

Concen: 23.791 ug/l

RT: 2.91 min Scan# 169

Delta R.T. -0.01 min

Lab File: VD064219.D

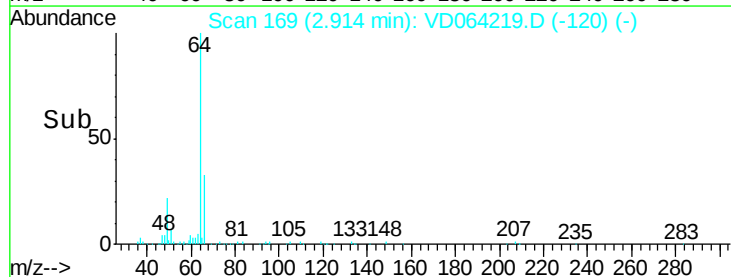
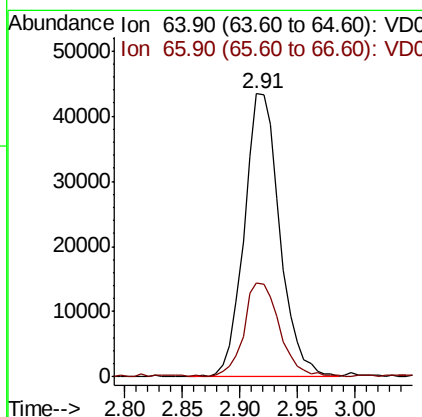
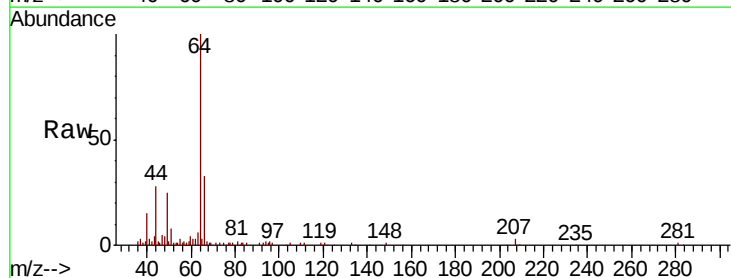
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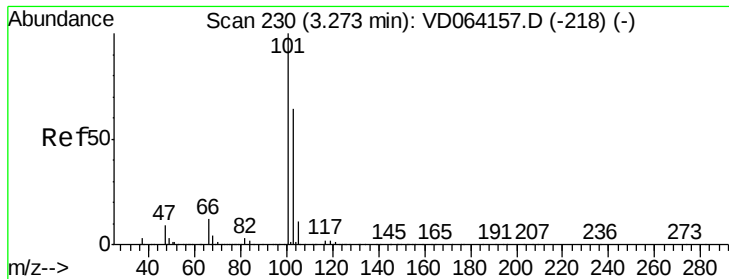
Tgt Ion: 64 Resp: 93092

Ion Ratio Lower Upper

64 100

66 33.1 25.5 38.3





#7

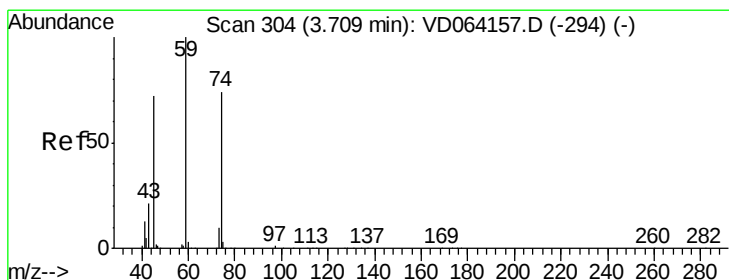
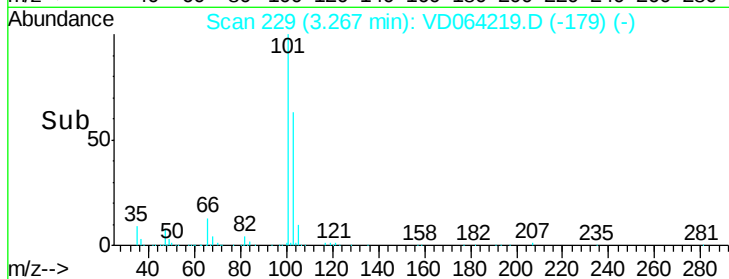
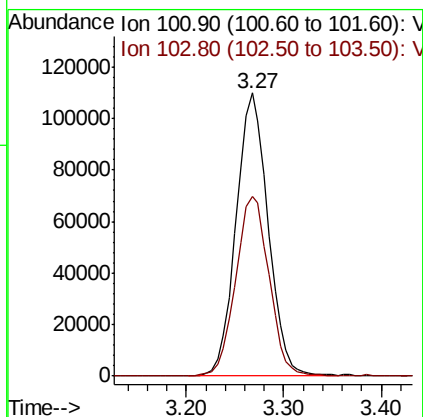
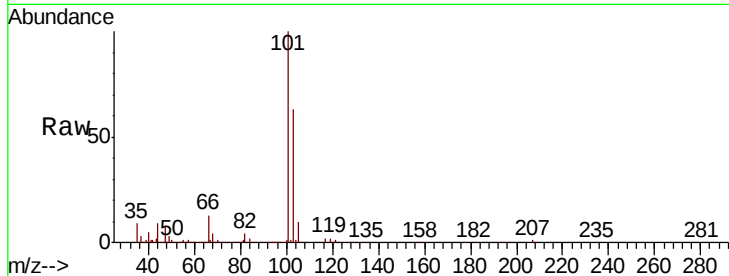
Trichlorofluoromethane
Concen: 25.273 ug/l
RT: 3.27 min Scan# 229
Delta R.T. -0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

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VD1115SBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	250917		
103	63.5	50.8	76.2	

Manual Integrations
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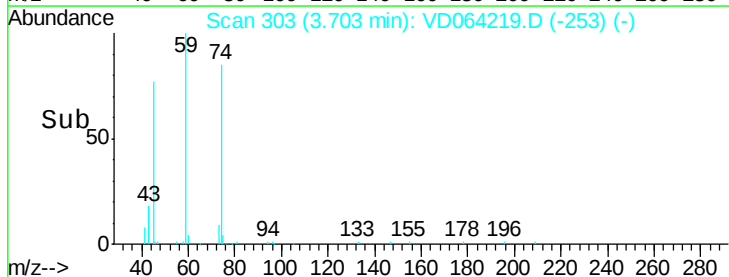
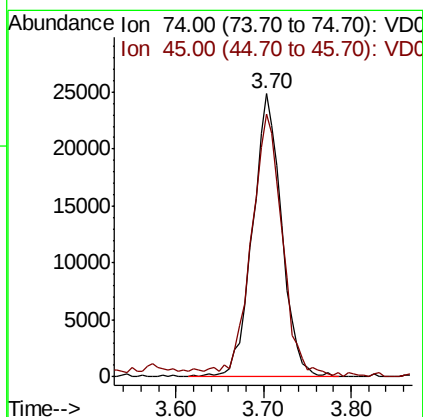
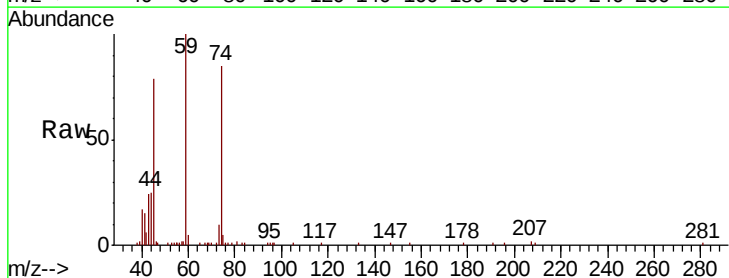
MMDADODA
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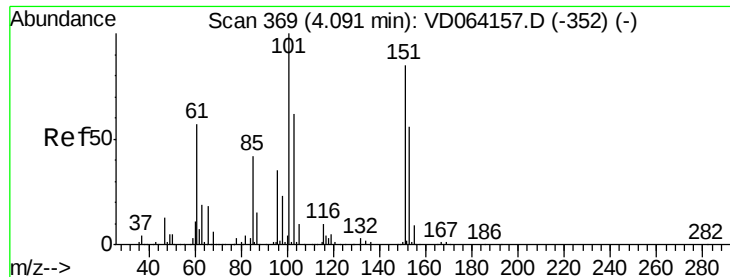


#8

Diethyl Ether
Concen: 20.601 ug/l
RT: 3.70 min Scan# 303
Delta R.T. -0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	56237		
45	96.5	47.9	143.7	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.630 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

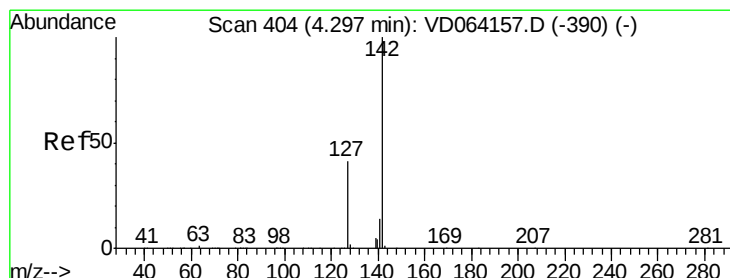
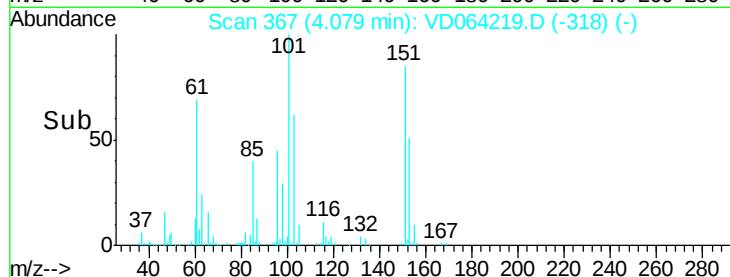
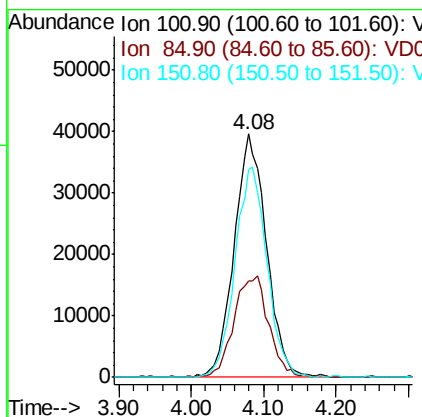
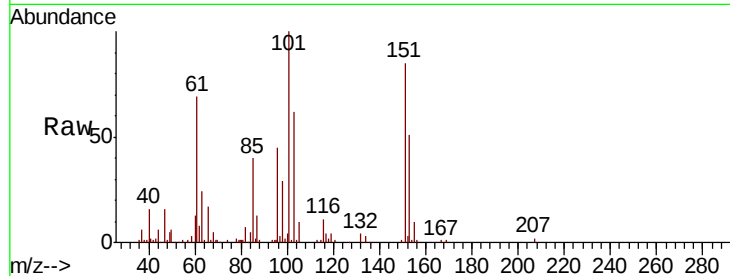
ClientSampleId :

VD1115SBS01

Tot Ion:	101	Resp:	122737
Ion Ratio	Lower	Upper	
101	100		
85	44.8	34.4	51.6
151	85.9	68.1	102.1

Manual Integrations
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#10

Methyl Iodide

Concen: 20.337 ug/l

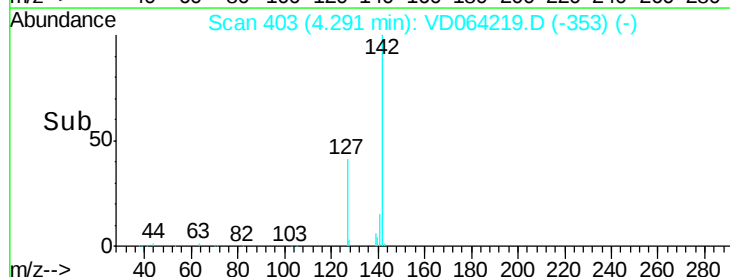
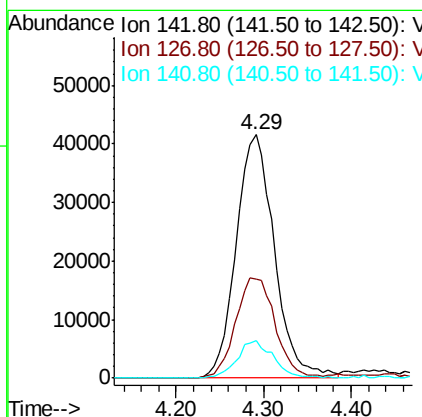
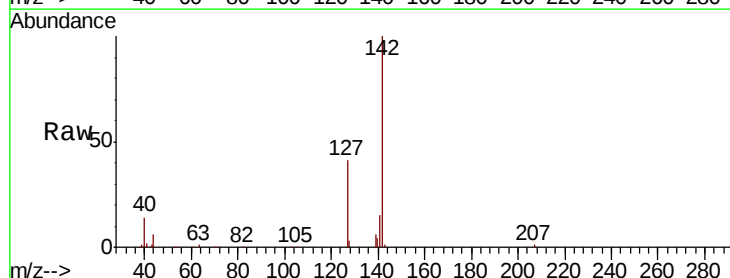
RT: 4.29 min Scan# 403

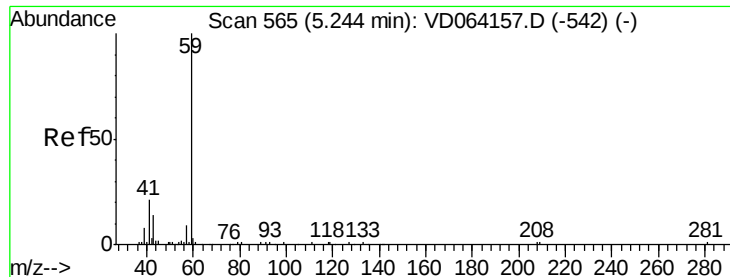
Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion:	142	Resp:	123596
Ion Ratio	Lower	Upper	
142	100		
127	42.4	34.4	51.6
141	14.7	11.2	16.8





#11

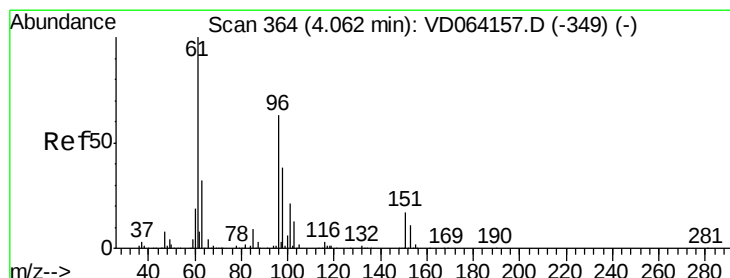
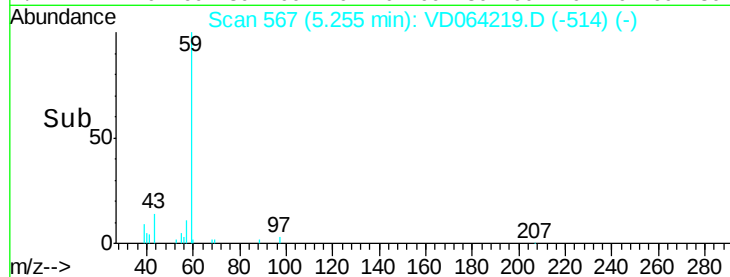
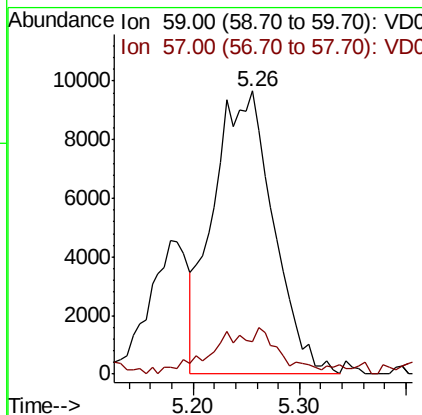
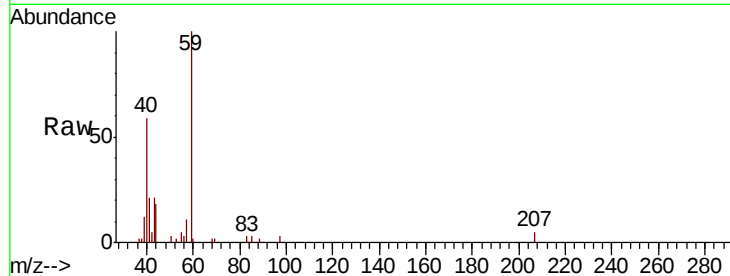
Tert butyl alcohol
 Concen: 102.269 ug/l m
 RT: 5.26 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion	59	Resp	37815
Ion Ratio	100	Lower	Upper
57	0.0	9.4	14.2#

Manual Integrations
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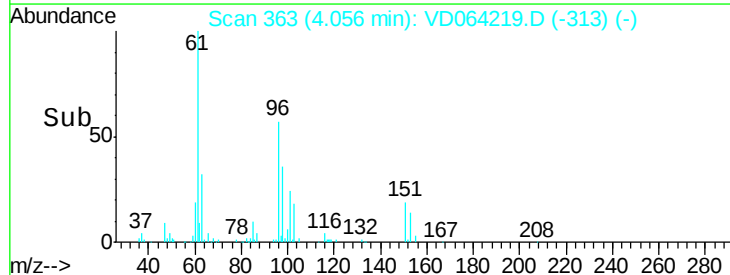
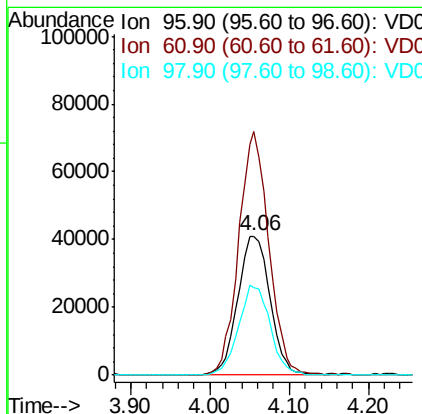
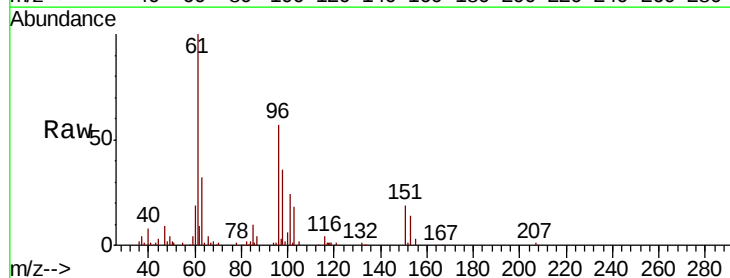
MMDADODA
 11/19/2019 12:23:12 PM

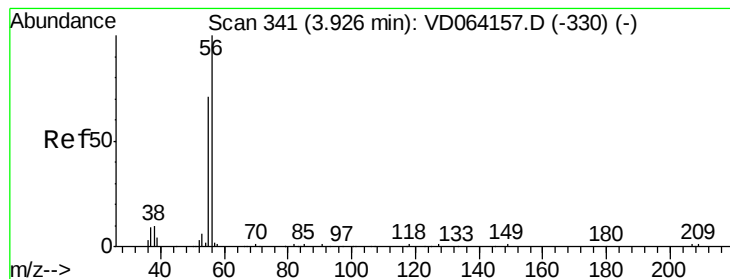


#12

1,1-Dichloroethene
 Concen: 21.646 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Tgt Ion	96	Resp	117079
Ion Ratio	100	Lower	Upper
61	175.1	127.4	191.2
98	63.2	48.1	72.1





#13

Acrolein

Concen: 78.457 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 56 Resp: 24542

Ion Ratio Lower Upper

56 100

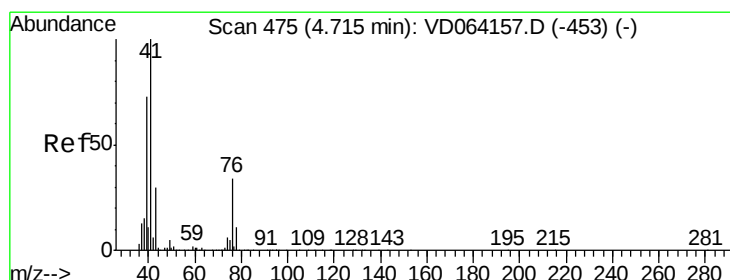
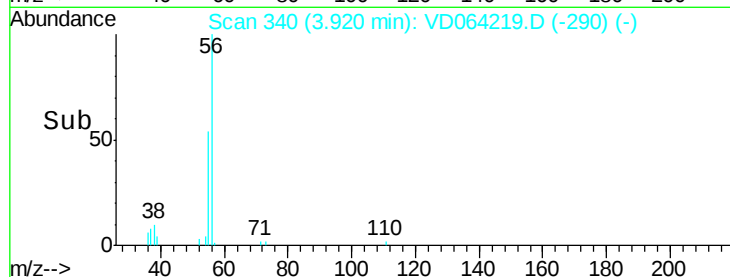
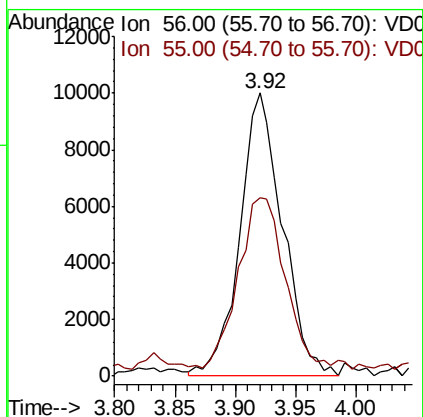
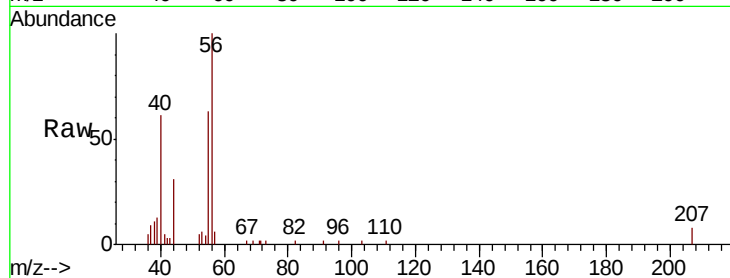
55 67.2 56.1 84.1

Manual Integrations

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#14

Allyl chloride

Concen: 19.721 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

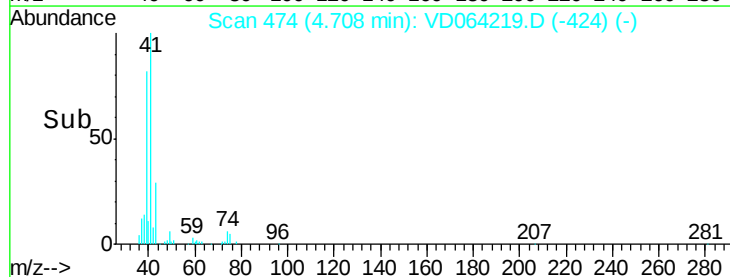
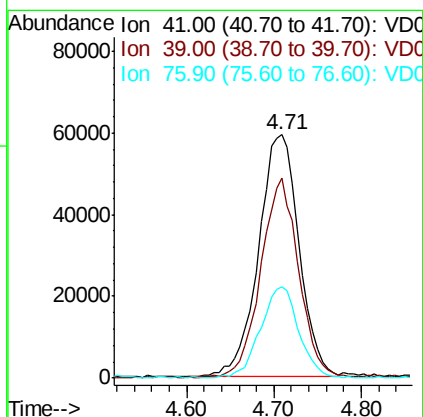
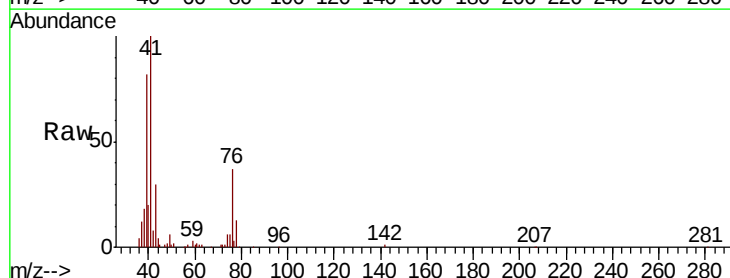
Tgt Ion: 41 Resp: 188601

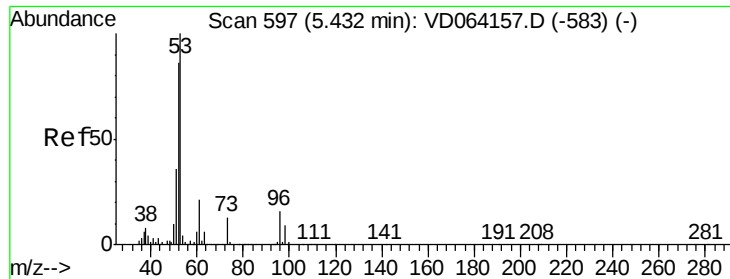
Ion Ratio Lower Upper

41 100

39 77.2 57.5 86.3

76 36.0 26.8 40.2





#15

Acrylonitrile

Concen: 102.784 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

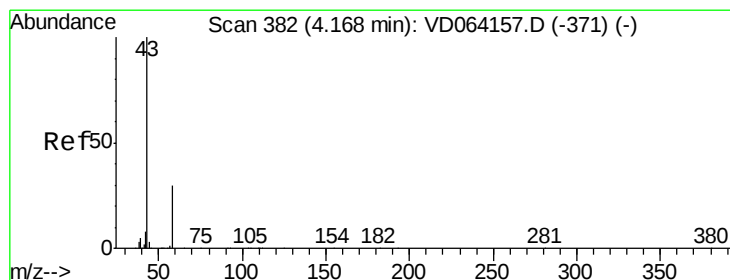
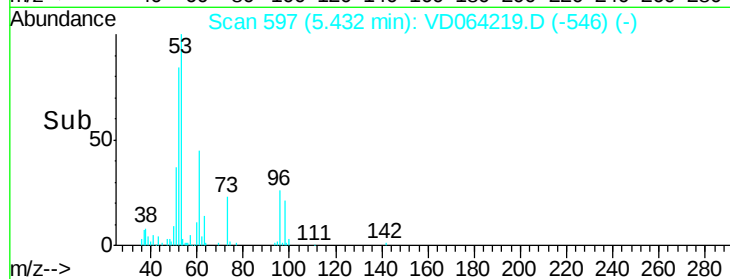
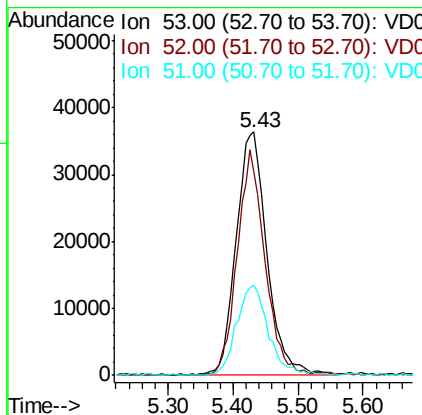
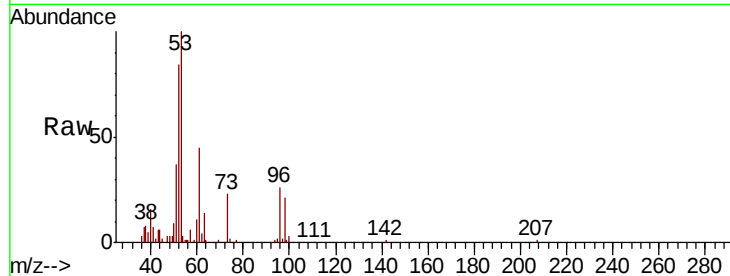
ClientSampleId :

VD1115SBS01

Tot Ion:	53	Resp:	119616
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.7	100.1
51	38.3	30.6	46.0

Manual Integrations
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#16

Acetone

Concen: 81.663 ug/l

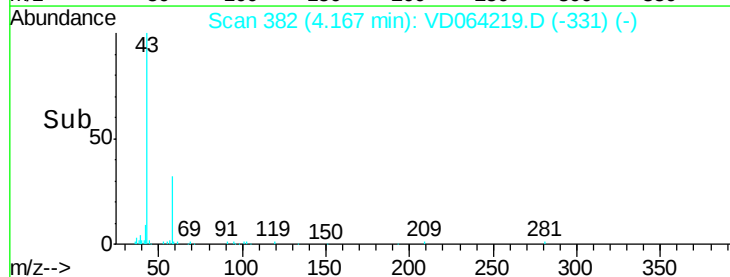
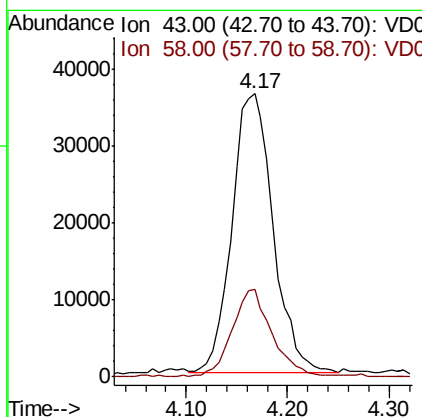
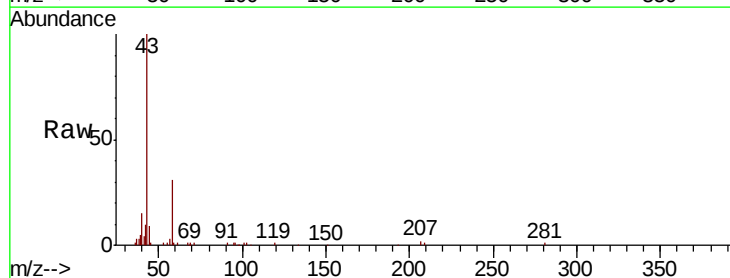
RT: 4.17 min Scan# 382

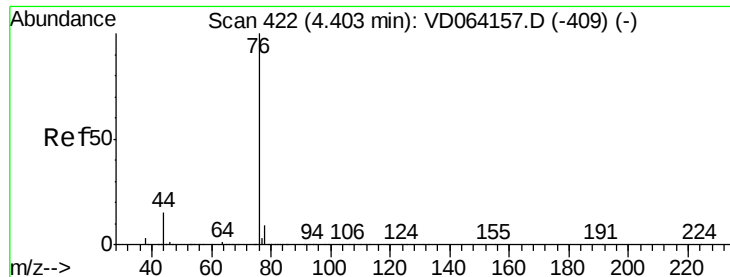
Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion:	43	Resp:	102418
Ion	Ratio	Lower	Upper
43	100		
58	31.6	24.1	36.1





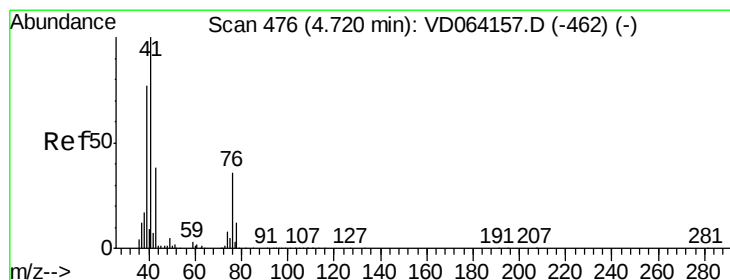
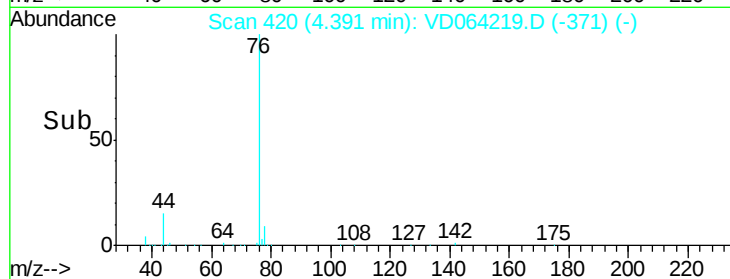
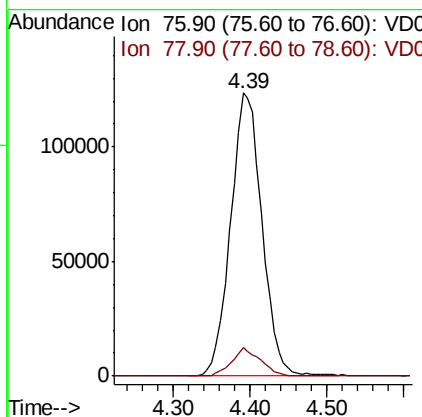
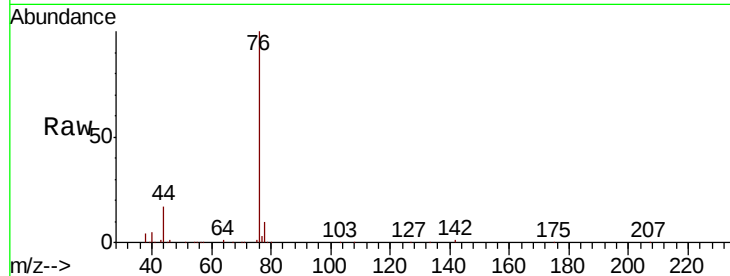
#17
Carbon Disulfide
Concen: 20.855 ug/l
RT: 4.39 min Scan# 420
Delta R.T. -0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8

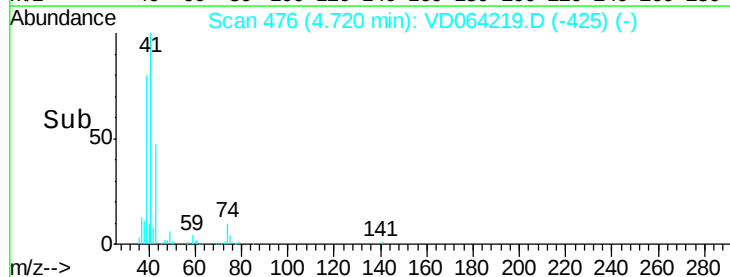
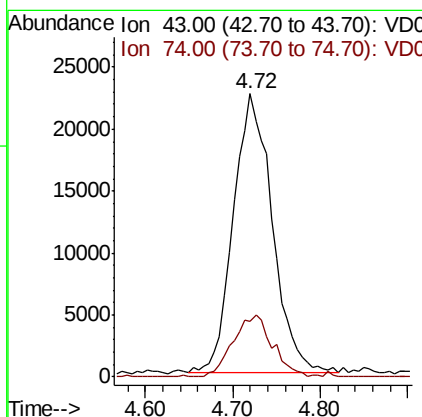
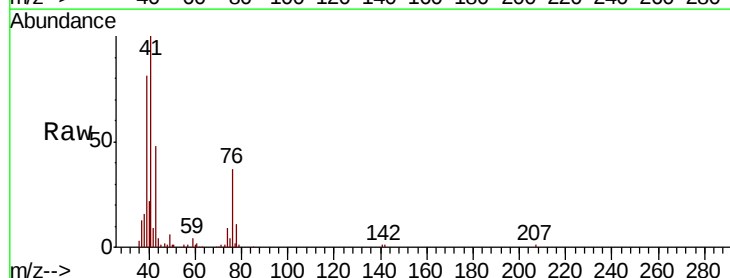
Manual Integrations
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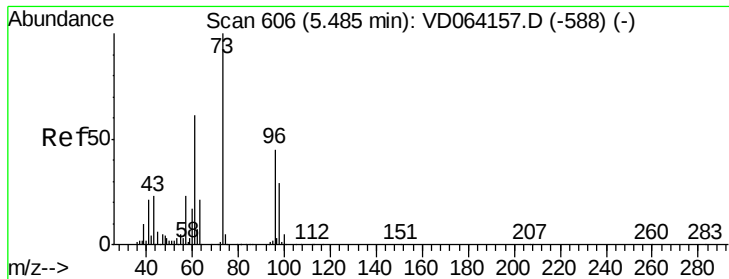
MMDADODA
11/19/2019 12:23:12 PM



#18
Methyl Acetate
Concen: 19.410 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.4	27.6





#19

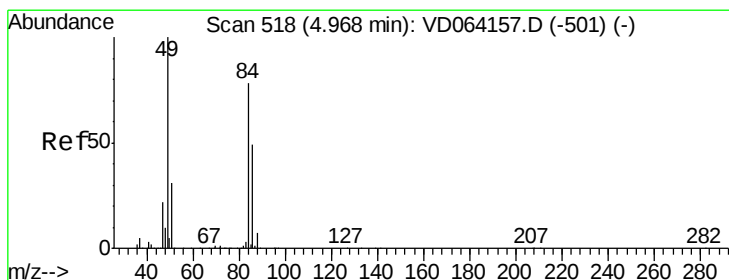
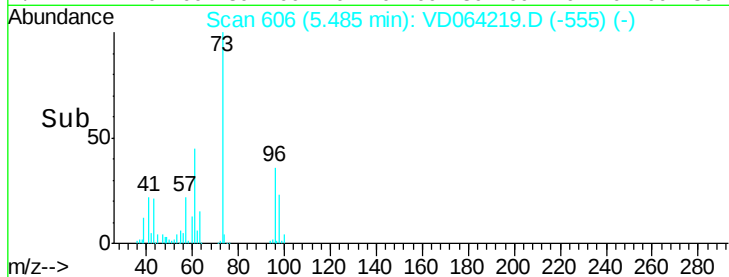
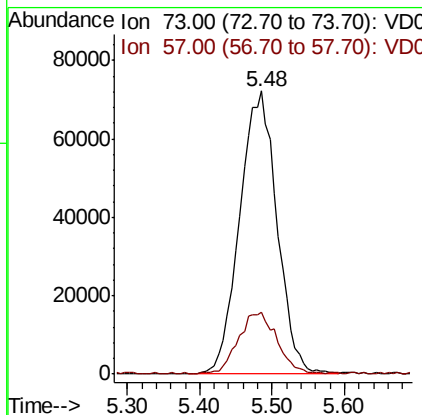
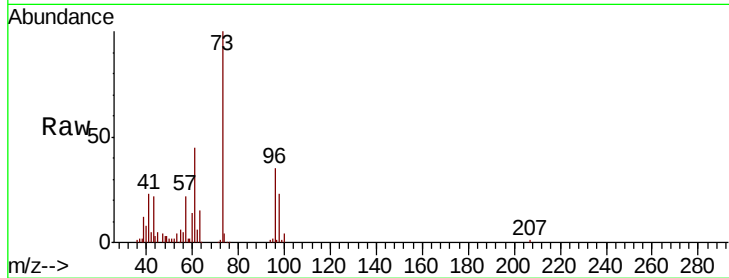
Methyl tert-butyl Ether
 Concen: 19.988 ug/l
 RT: 5.48 min Scan# 606
 Delta R.T. -0.00 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.5	18.4	27.6

Manual Integrations
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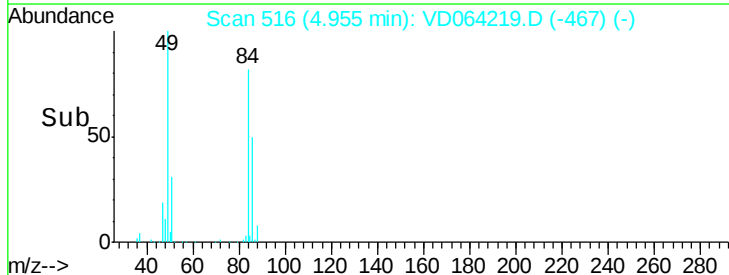
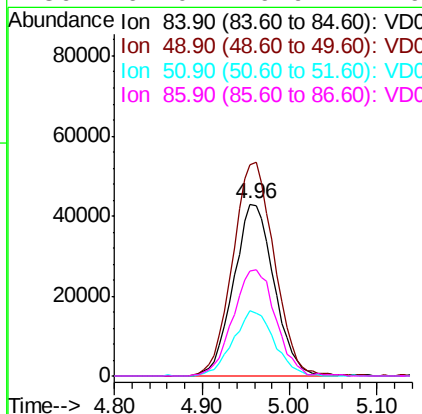
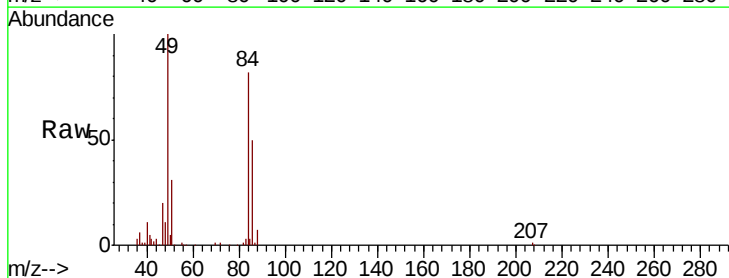
MMDADODA
 11/19/2019 12:23:12 PM

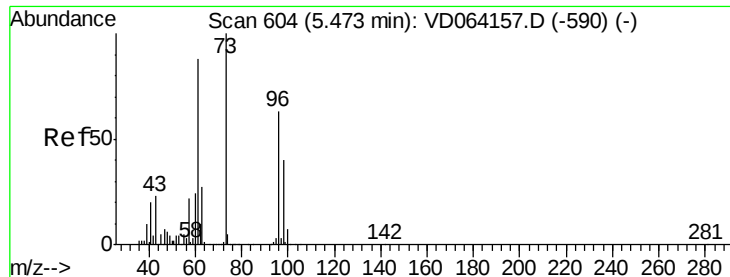


#20

Methylene Chloride
 Concen: 21.364 ug/l
 RT: 4.96 min Scan# 516
 Delta R.T. -0.01 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
84	100		
49	122.7	102.1	153.1
51	37.7	32.2	48.2
86	61.0	49.9	74.9





#21

trans-1,2-Dichloroethene

Concen: 20.983 ug/l

RT: 5.47 min Scan# 604

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

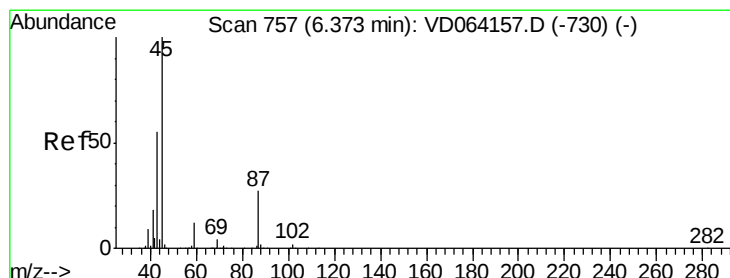
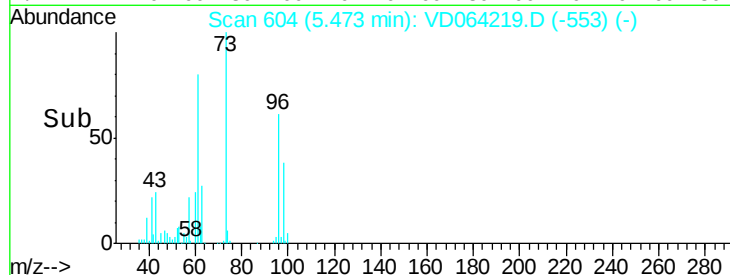
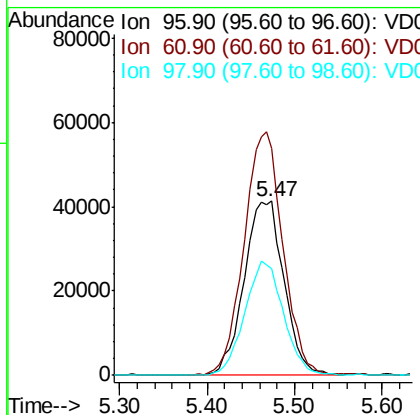
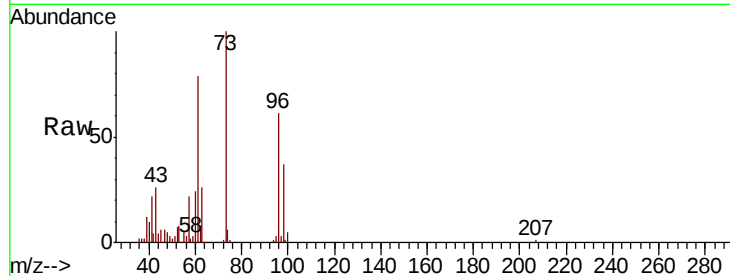
ClientSampleId :

VD1115SBS01

Tot Ion:	96	Resp:	128583
Ion	Ratio	Lower	Upper
96	100		
61	130.5	111.8	167.6
98	61.5	50.3	75.5

Manual Integrations
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#22

Diisopropyl ether

Concen: 20.171 ug/l

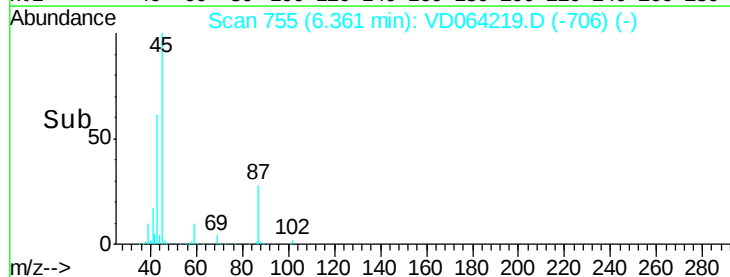
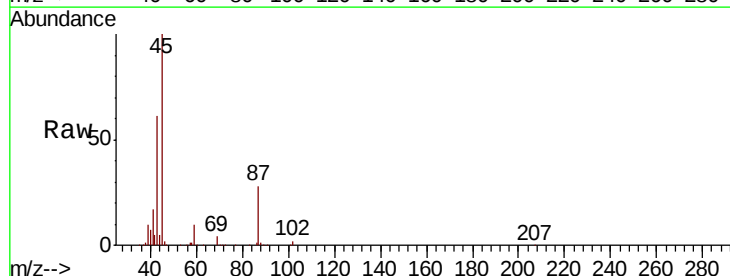
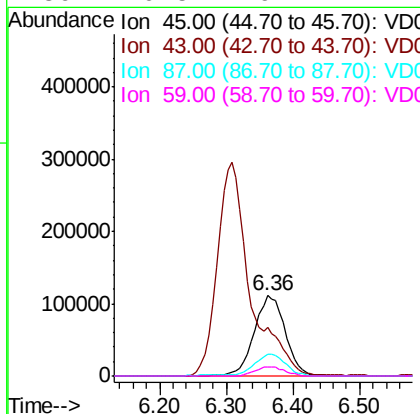
RT: 6.36 min Scan# 755

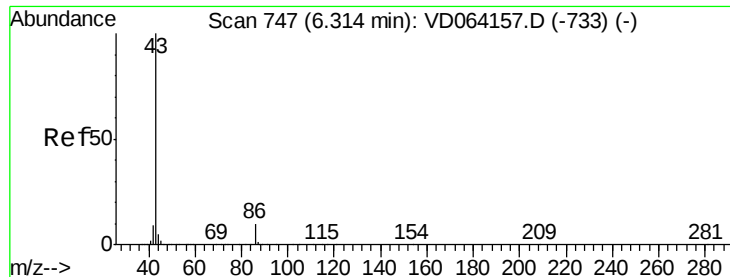
Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion:	45	Resp:	357903
Ion	Ratio	Lower	Upper
45	100		
43	60.1	44.4	66.6
87	27.5	21.9	32.9
59	10.5	9.4	14.2





#23

Vinyl Acetate

Concen: 102.995 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 43 Resp: 1018710

Ion Ratio Lower Upper

43 100

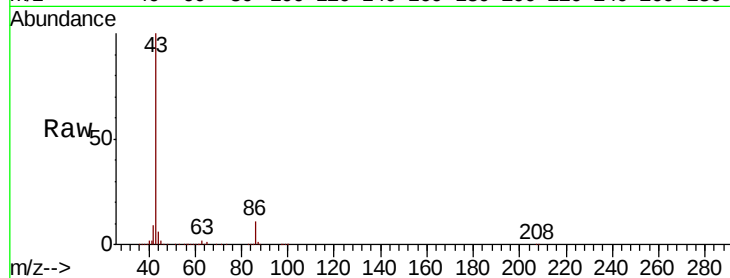
86 11.1 8.2 12.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

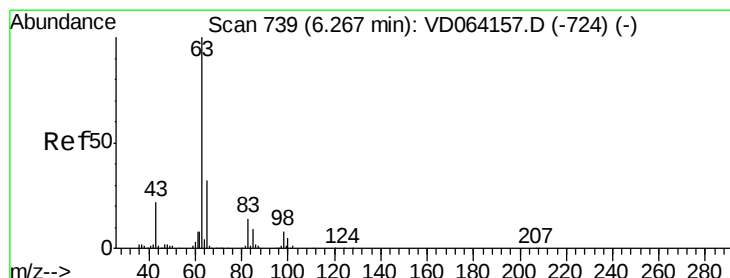
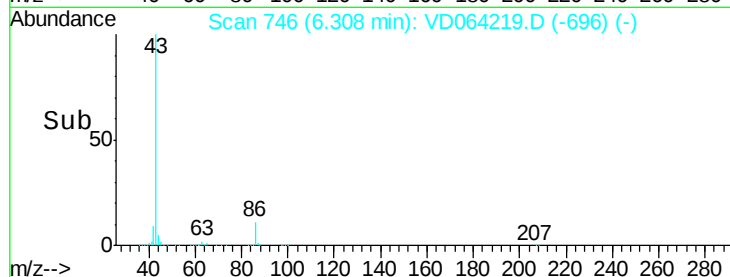
300000

200000

100000

0

Time--> 6.10 6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 20.656 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

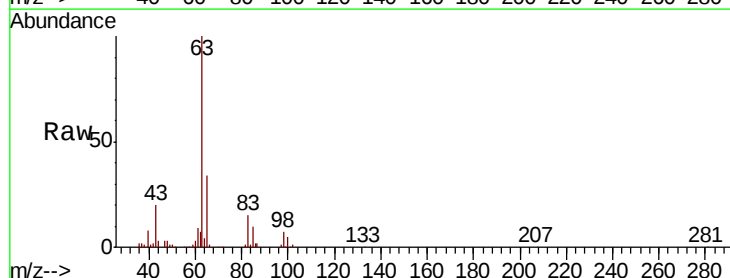
Tgt Ion: 63 Resp: 212812

Ion Ratio Lower Upper

63 100

98 7.1 3.8 11.4

100 5.0 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.26

80000

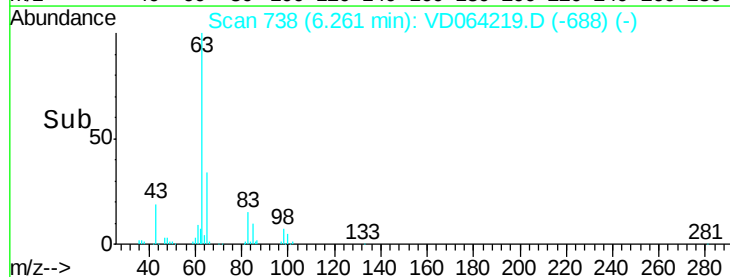
60000

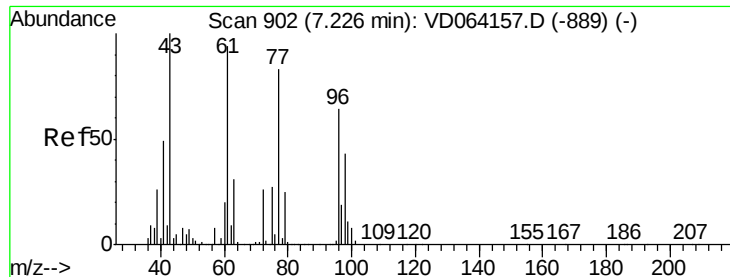
40000

20000

0

Time--> 6.10 6.20 6.30 6.40





#25

2-Butanone

Concen: 96.097 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 43 Resp: 155705

Ion Ratio Lower Upper

43 100

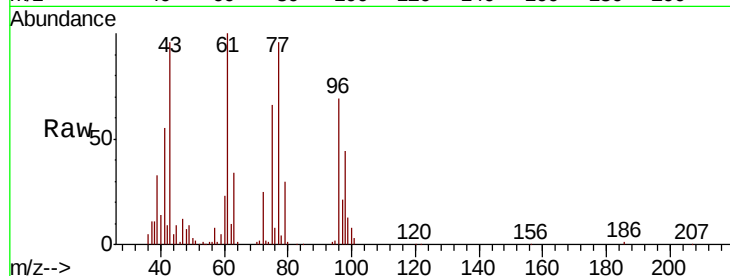
72 26.6 20.6 30.8

Manual Integrations

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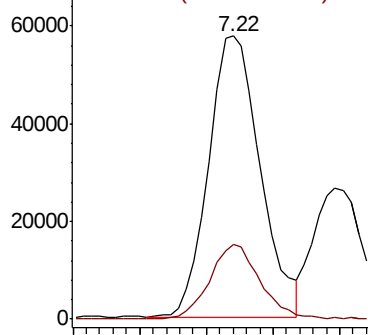
MMDADODA

11/19/2019 12:23:12 PM

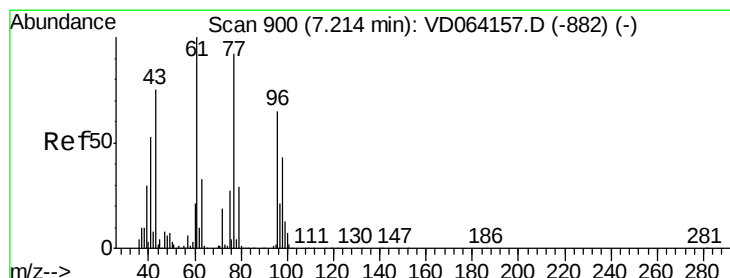
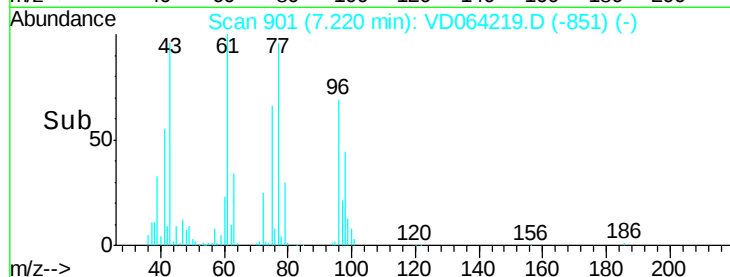


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time--> 7.10 7.15 7.20 7.25 7.30



#26

2,2-Dichloropropane

Concen: 20.815 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD064219.D

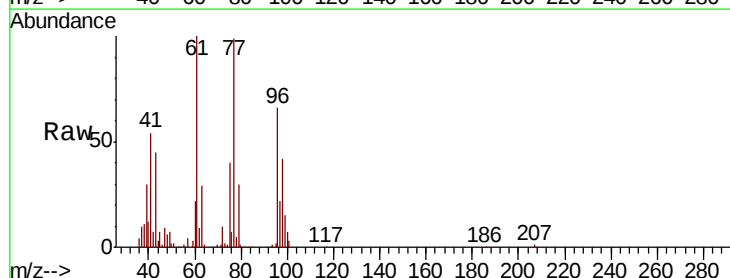
Acq: 15 Nov 2019 11:17

Tgt Ion: 77 Resp: 210308

Ion Ratio Lower Upper

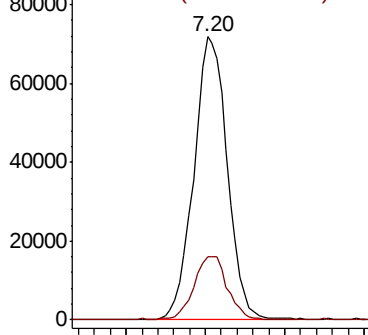
77 100

97 22.4 11.1 33.3

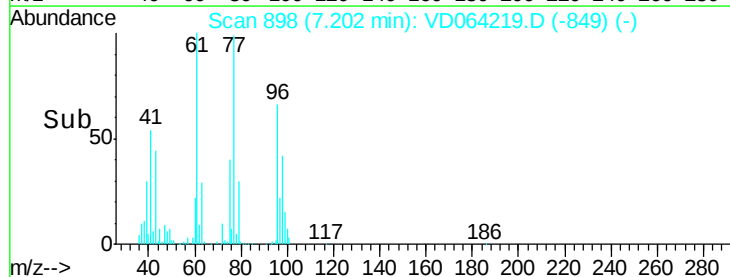


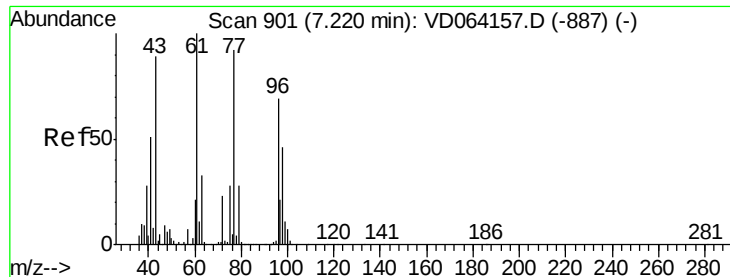
Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



Time--> 7.10 7.20 7.30





#27

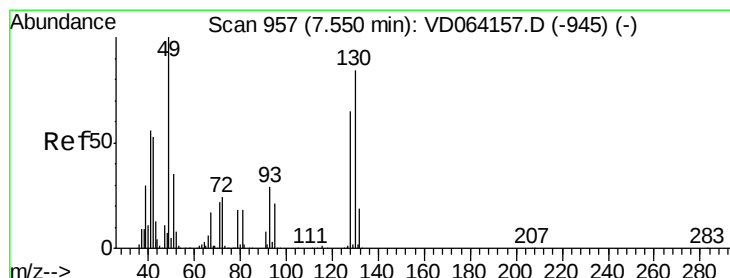
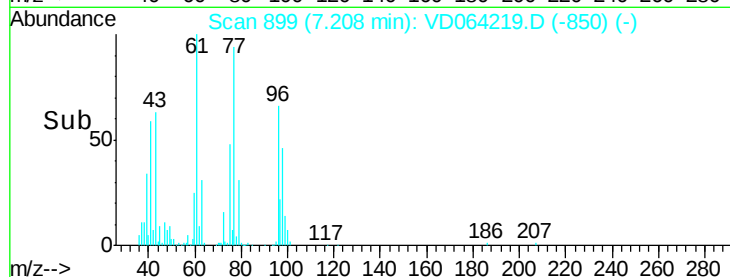
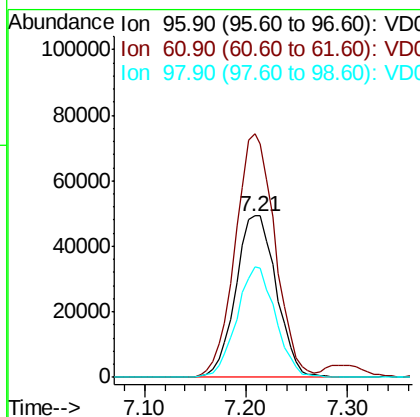
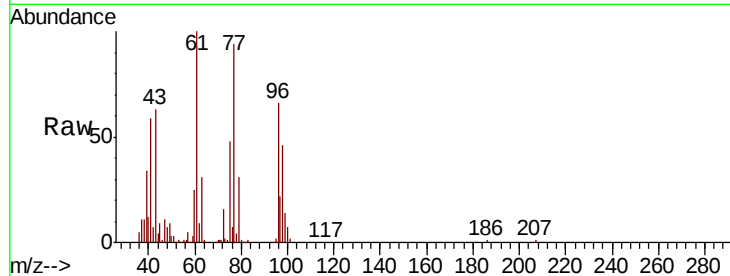
cis-1,2-Dichloroethene
Concen: 20.919 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.1	0.0	301.4
98	65.1	0.0	133.2

Manual Integrations
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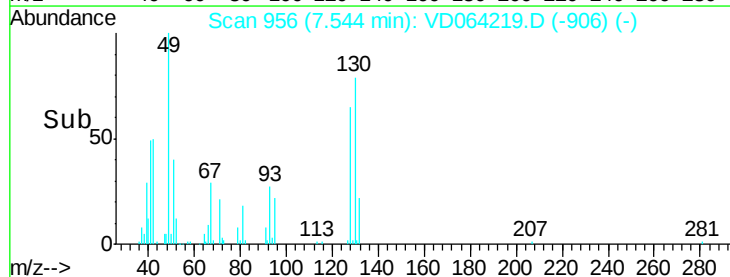
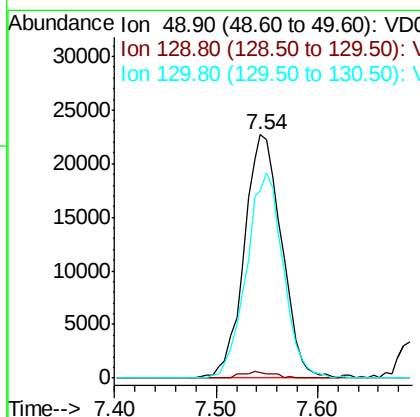
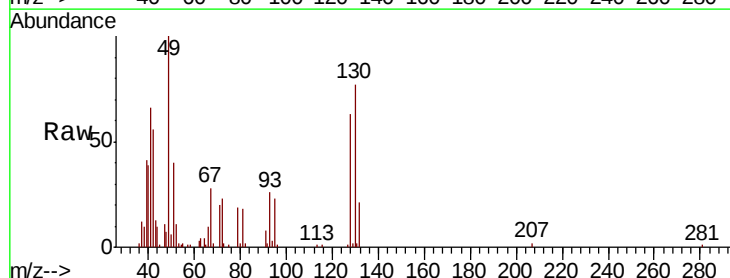
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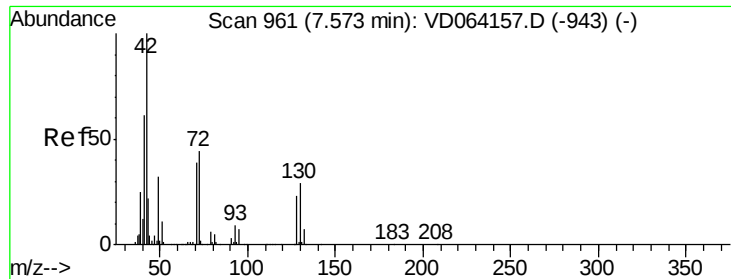


#28

Bromochloromethane
Concen: 16.255 ug/l
RT: 7.54 min Scan# 956
Delta R.T. -0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	82.9	66.8	100.2





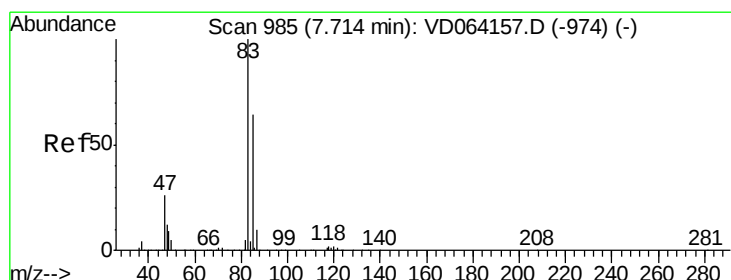
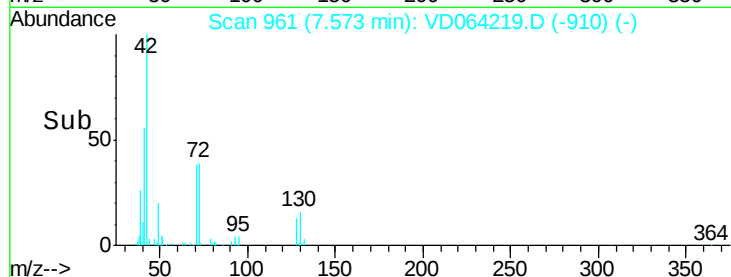
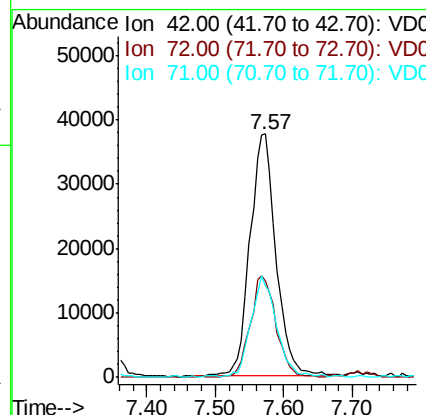
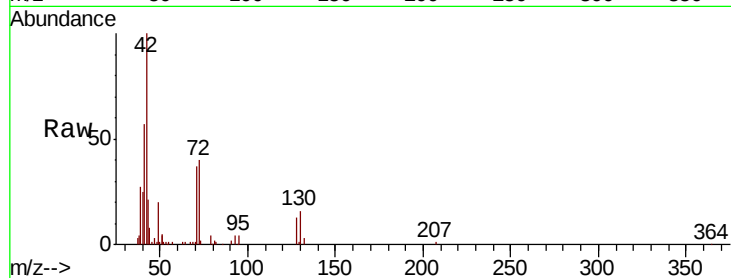
#29
Tetrahydrofuran
Concen: 102.839 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.3	33.4	50.2
71	40.7	31.0	46.4

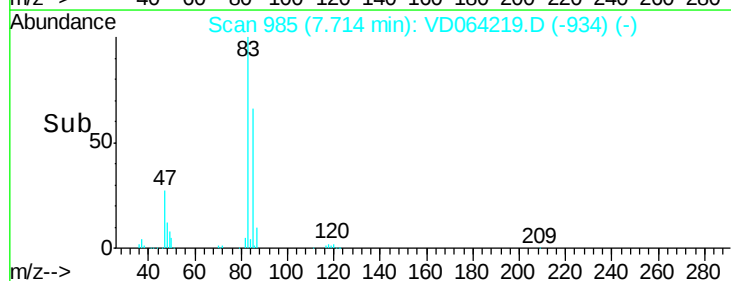
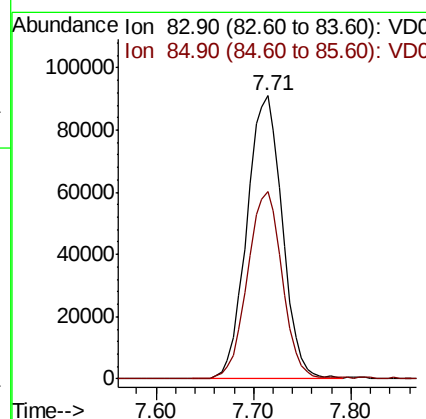
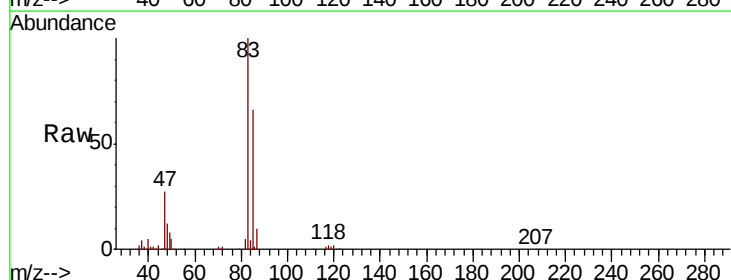
Manual Integrations
APPROVED

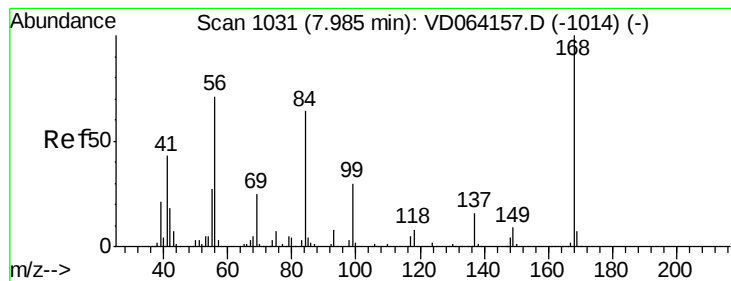
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#30
Chloroform
Concen: 21.815 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.4	77.0





#31

Cyclohexane

Concen: 20.594 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

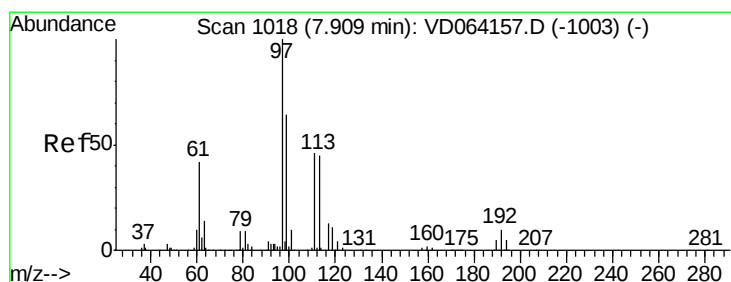
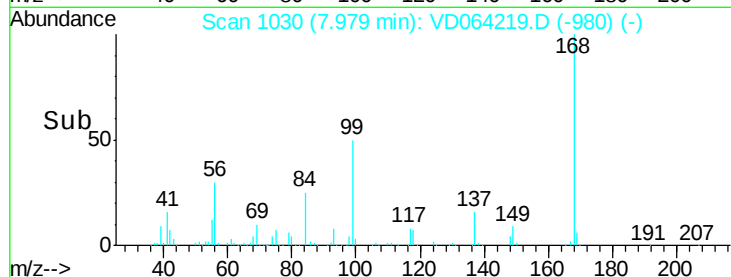
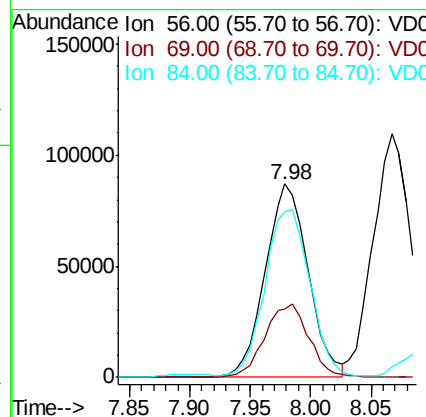
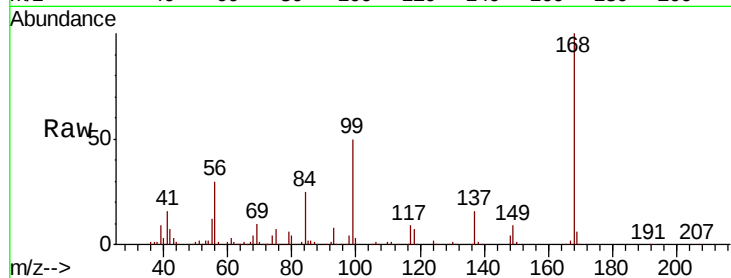
VD1115SBS01

Tot Ion: 56 Resp: 213983

Ion	Ratio	Lower	Upper
56	100		
69	35.2	28.2	42.4
84	83.7	71.8	107.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 21.036 ug/l

RT: 7.90 min Scan# 1017

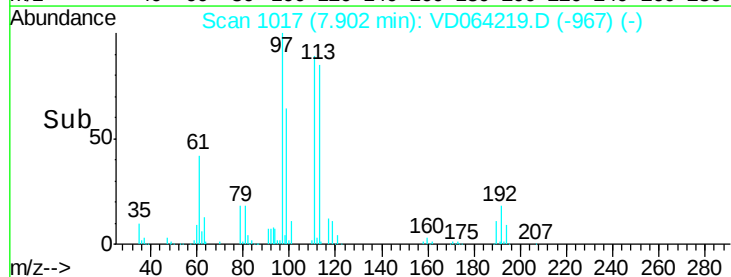
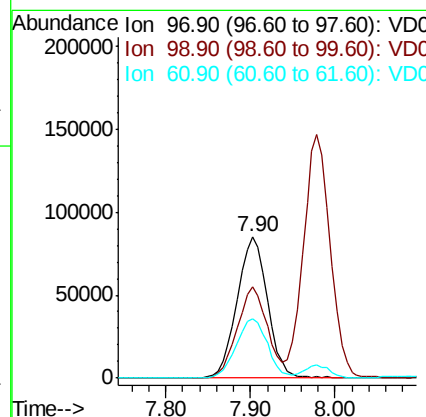
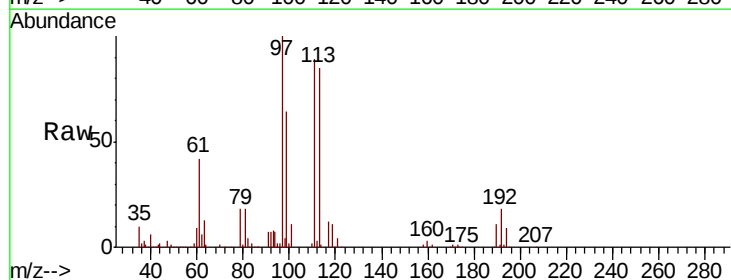
Delta R.T. -0.01 min

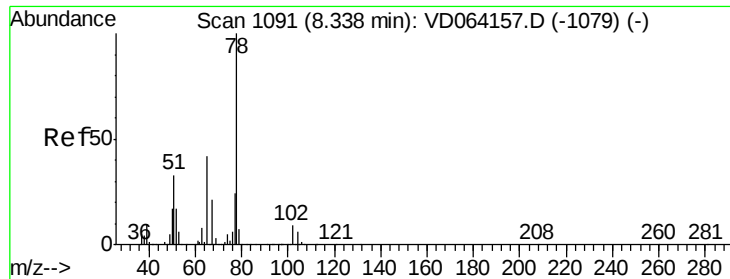
Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion: 97 Resp: 212276

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	43.0	34.2	51.2





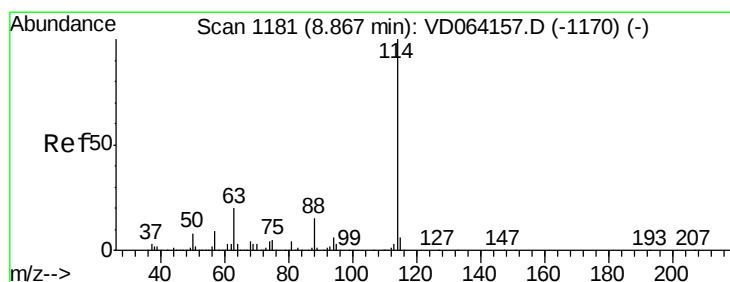
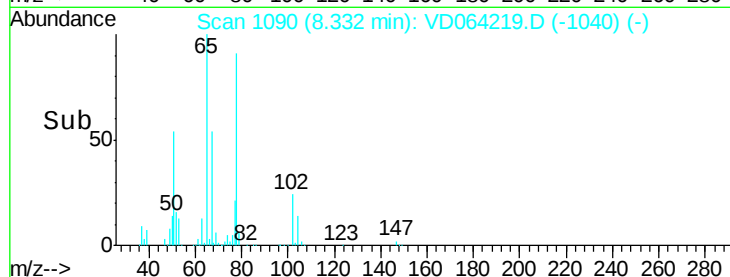
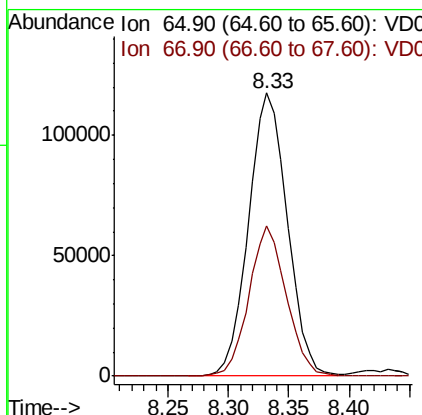
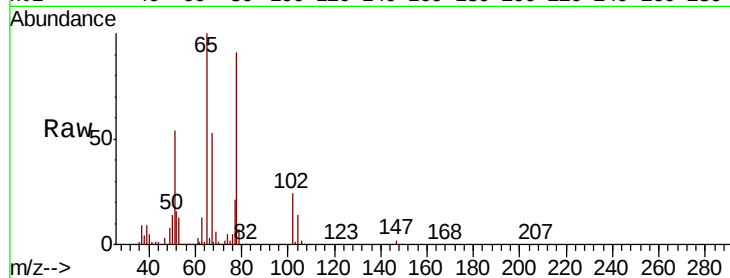
#33
 1,2-Dichloroethane-d4
 Concen: 49.588 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.4

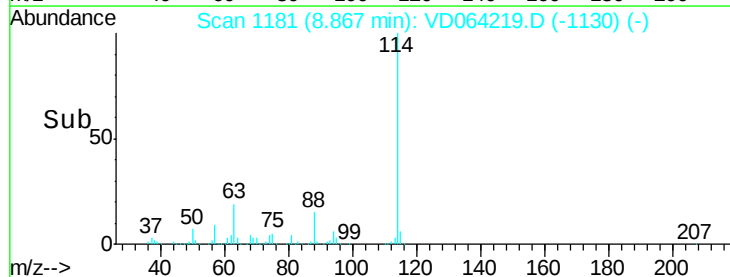
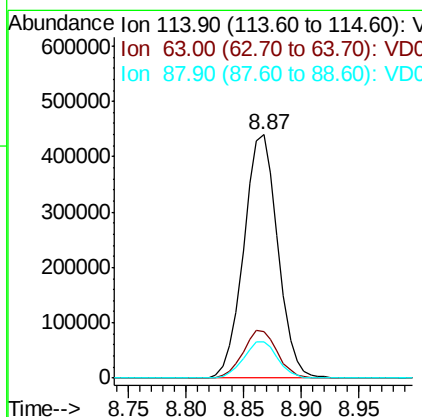
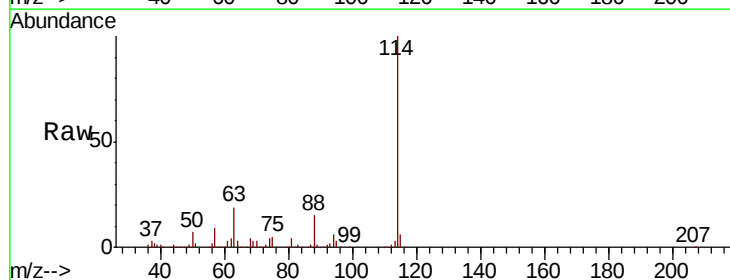
Manual Integrations
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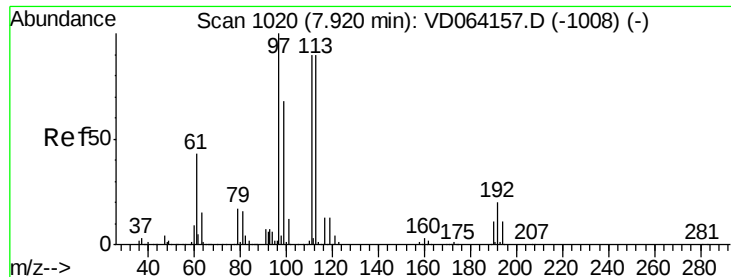
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	40.0
88	14.9	0.0	30.2





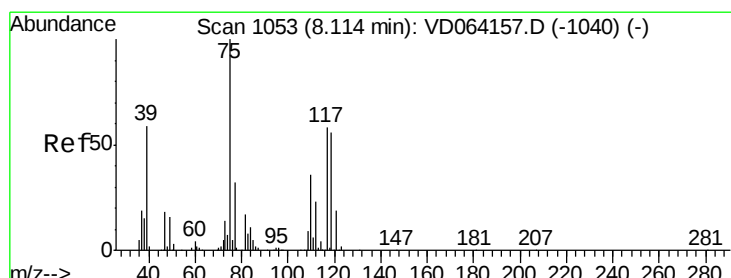
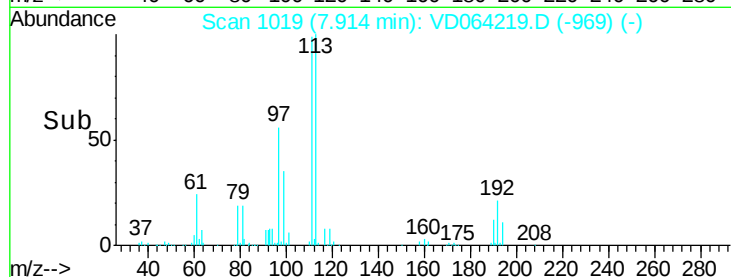
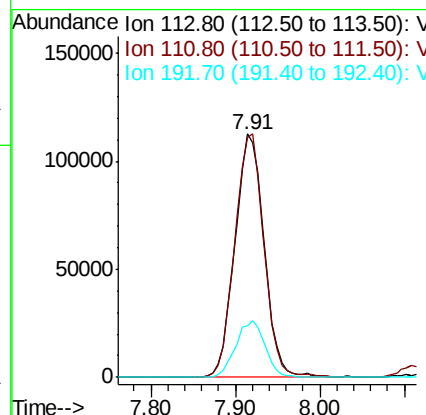
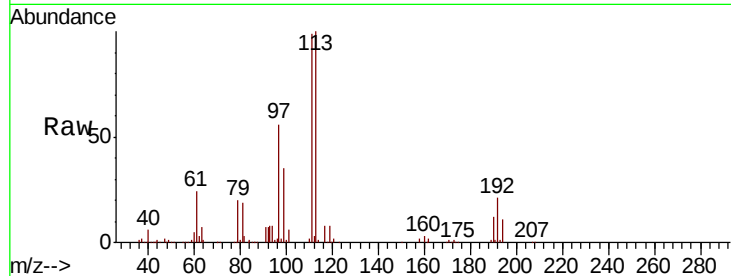
#35
Dibromofluoromethane
Concen: 51.707 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. -0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	268240		
111	99.8	81.5	122.3	
192	23.4	18.8	28.2	

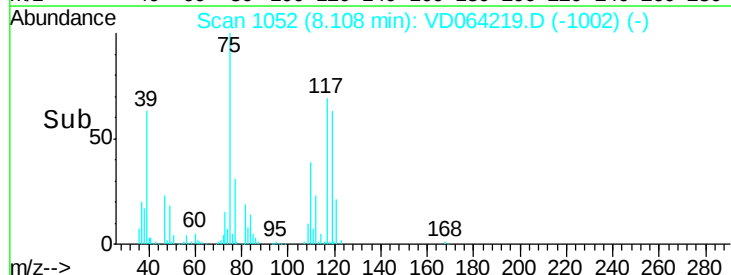
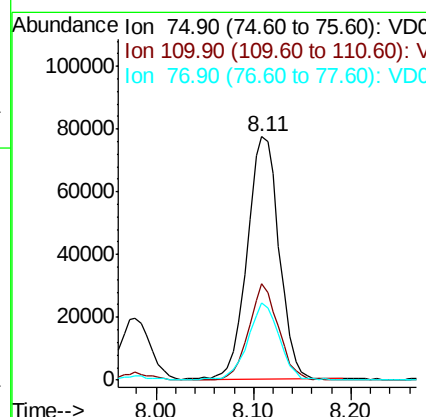
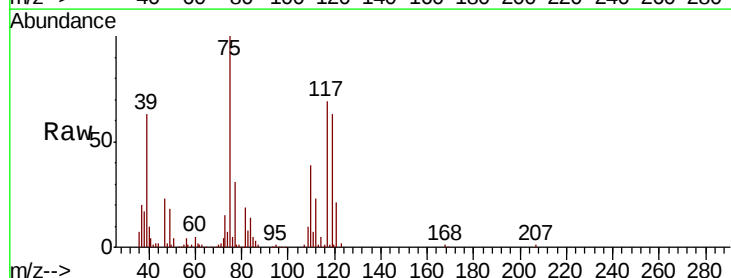
Manual Integrations
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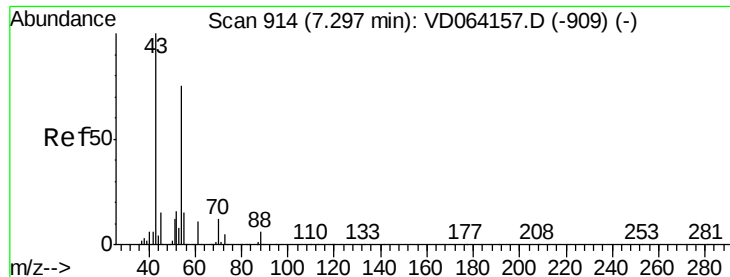
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#36
1,1-Dichloropropene
Concen: 21.246 ug/l
RT: 8.11 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	177213		
110	36.8	18.3	54.9	
77	31.5	25.0	37.6	





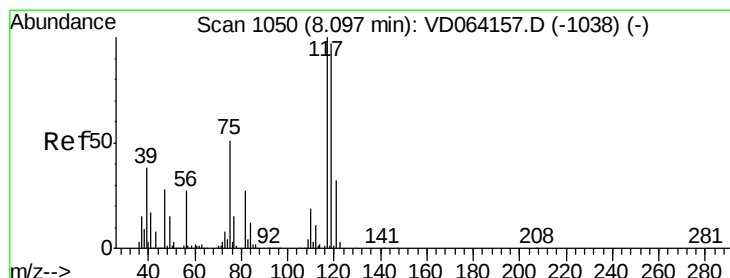
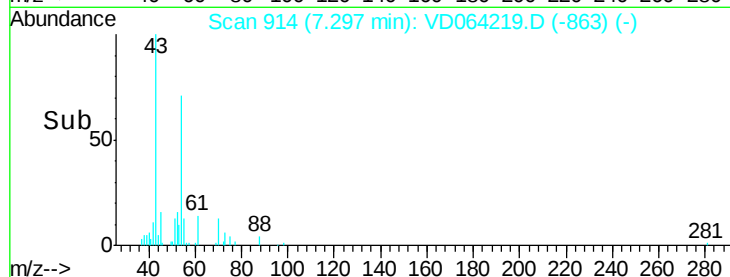
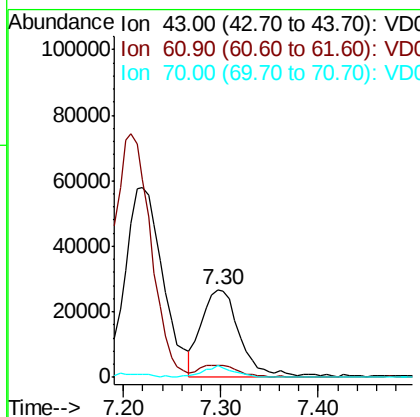
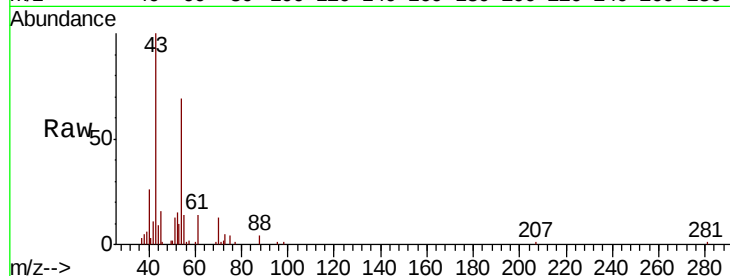
#37
Ethyl Acetate
Concen: 20.380 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	10.2	15.2
70	10.4	8.5	12.7

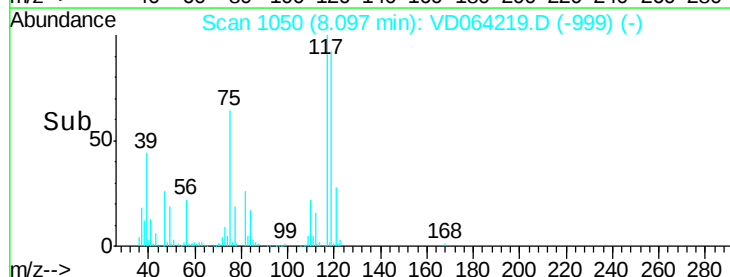
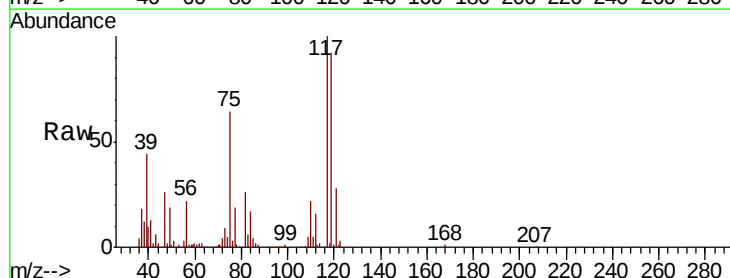
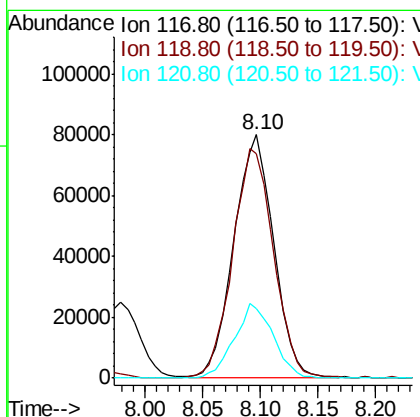
Manual Integrations
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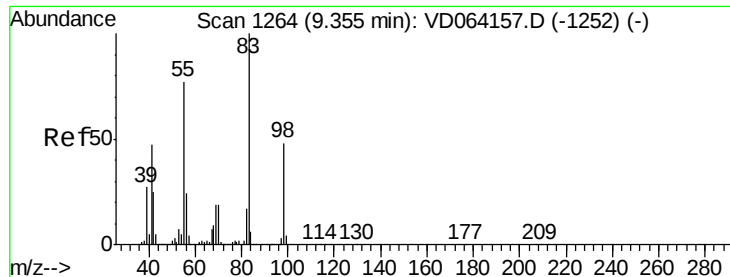
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#38
Carbon Tetrachloride
Concen: 21.409 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.1	77.2	115.8
121	28.4	25.5	38.3





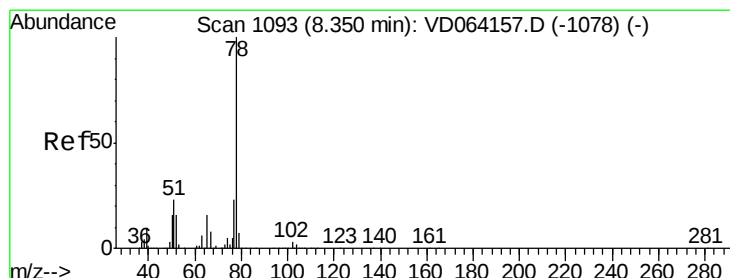
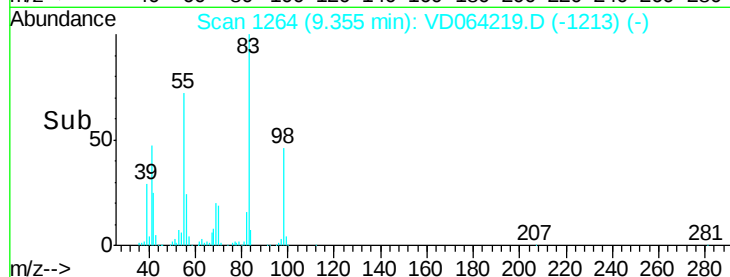
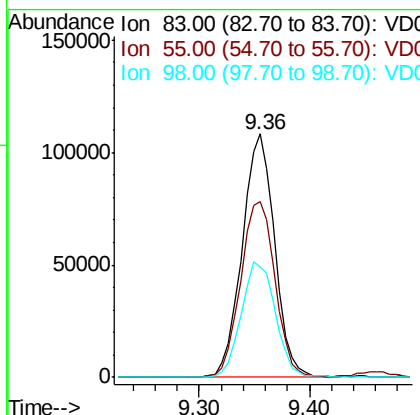
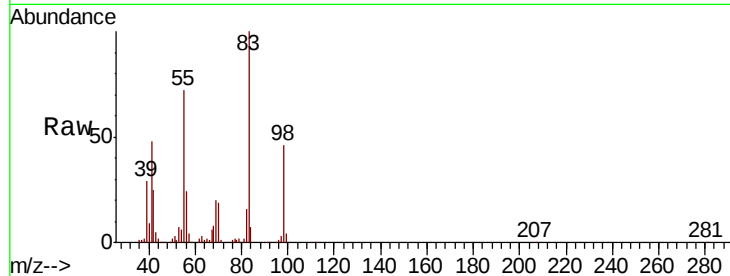
#39
Methvlcvclohexane
Concen: 21.262 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.9	61.7	92.5
98	45.5	38.6	58.0

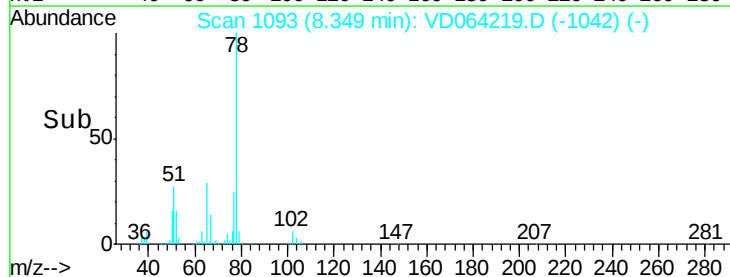
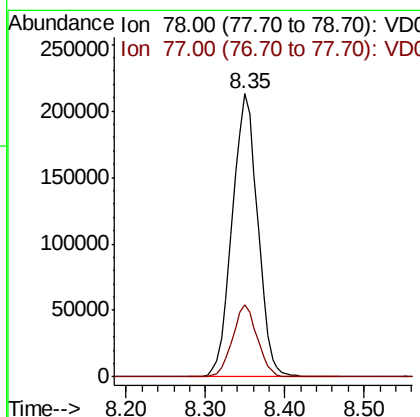
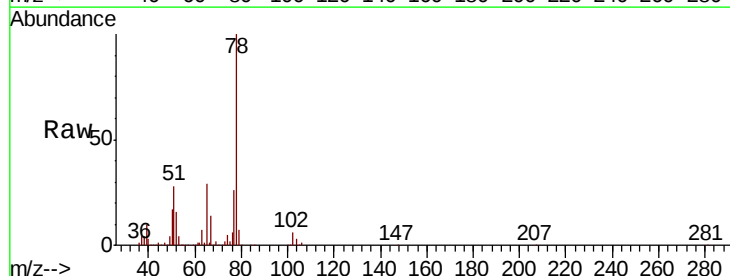
Manual Integrations
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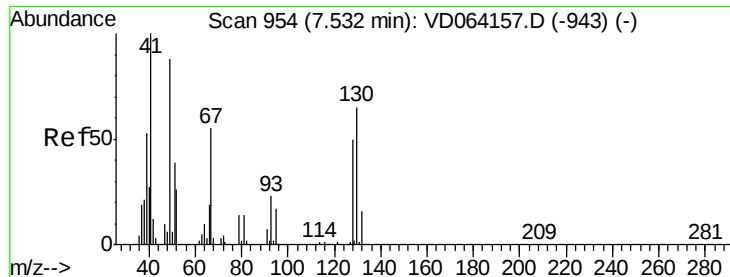
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#40
Benzene
Concen: 20.848 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.5	18.6	28.0





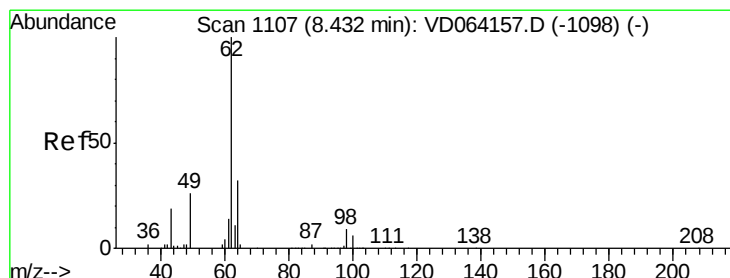
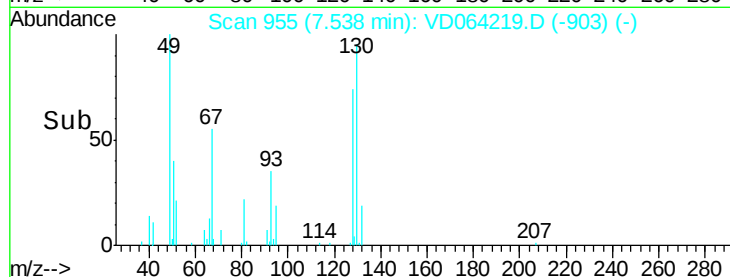
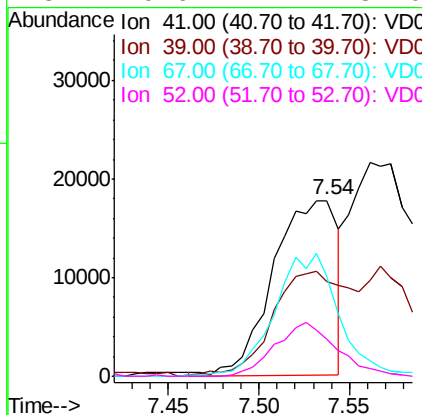
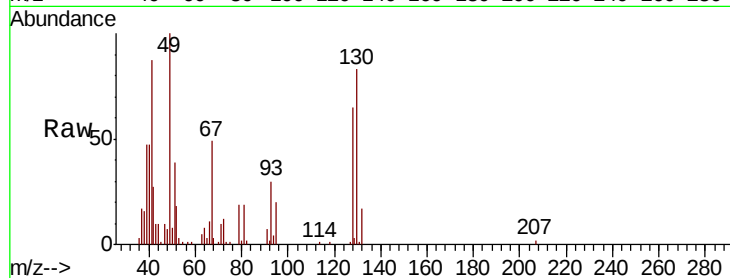
#41
Methacrylonitrile
Concen: 19.887 ug/l
RT: 7.54 min Scan# 955
Delta R.T. 0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	41	Resp	43953
Ion	Ratio	Lower	Upper
41	100		
39	73.8	49.4	74.2
67	70.3	49.6	74.4
52	29.6	21.4	32.0

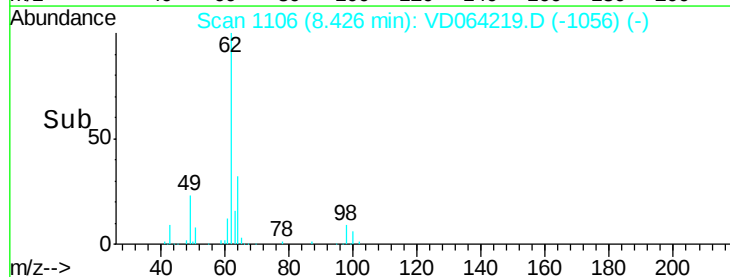
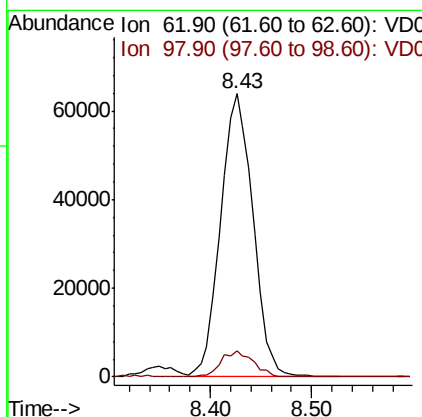
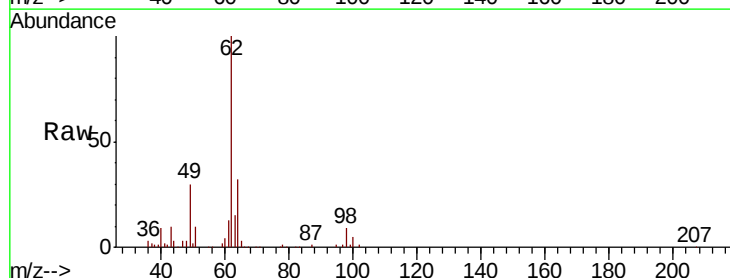
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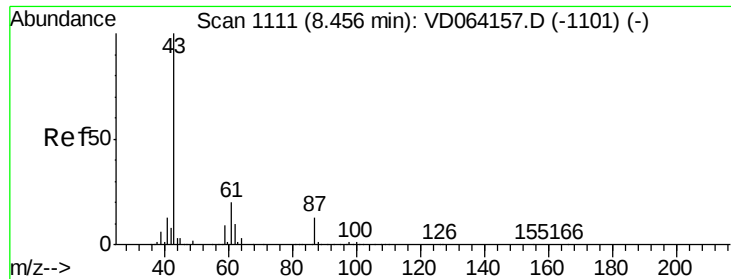
MMDADODA
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#42
1,2-Dichloroethane
Concen: 20.704 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	62	Resp	141750
Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	19.0





#43

Isopropyl Acetate

Concen: 19.866 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

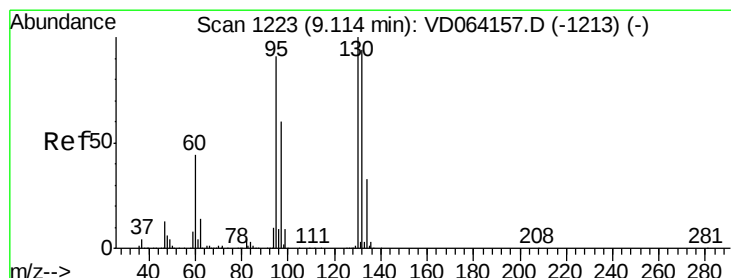
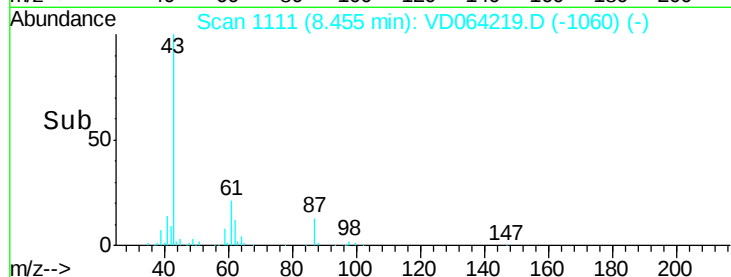
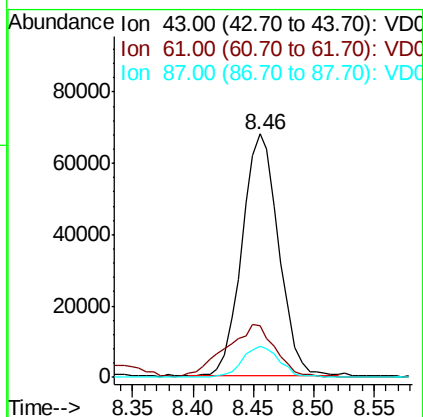
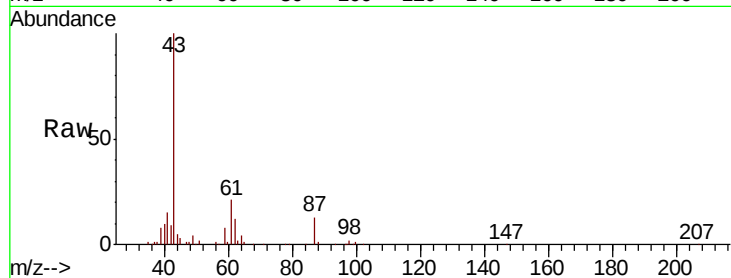
ClientSampleId :

VD1115SBS01

Tot Ion:	43	Resp:	143928
Ion	Ratio	Lower	Upper
43	100		
61	28.7	22.9	34.3
87	13.3	10.2	15.2

Manual Integrations
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#44

Trichloroethene

Concen: 21.161 ug/l

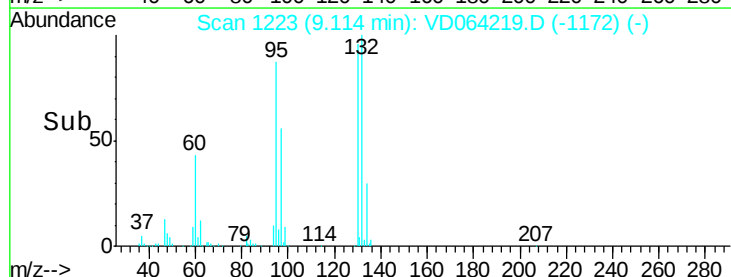
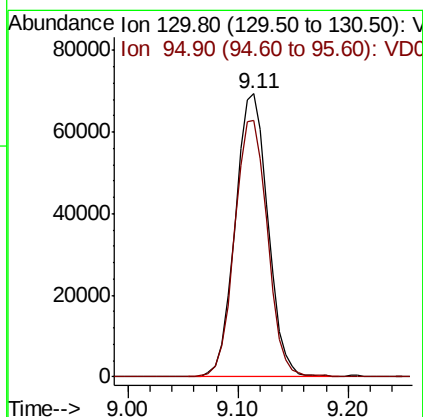
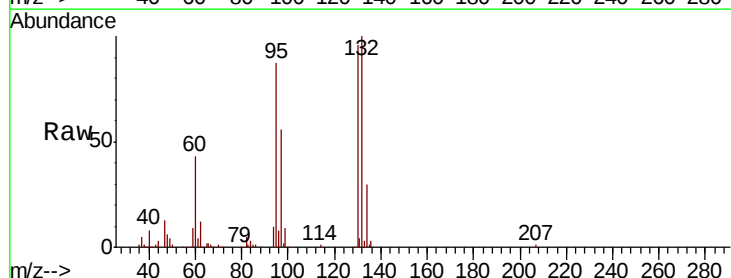
RT: 9.11 min Scan# 1223

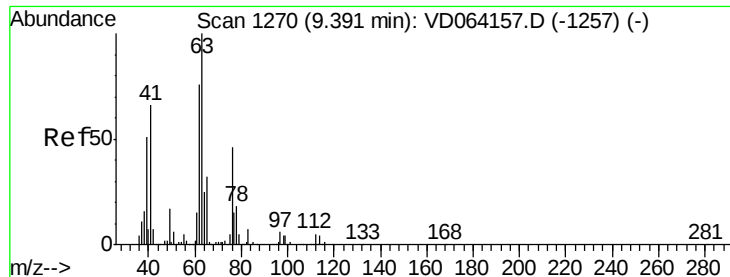
Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion:	130	Resp:	144776
Ion	Ratio	Lower	Upper
130	100		
95	90.7	0.0	181.6





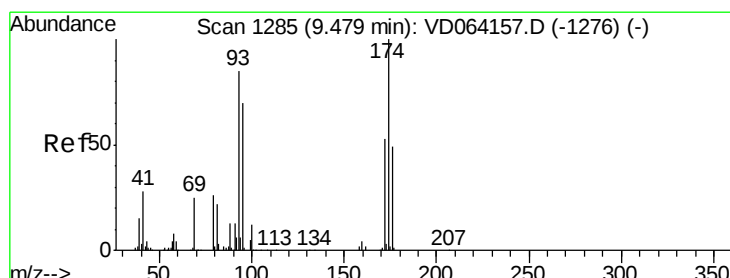
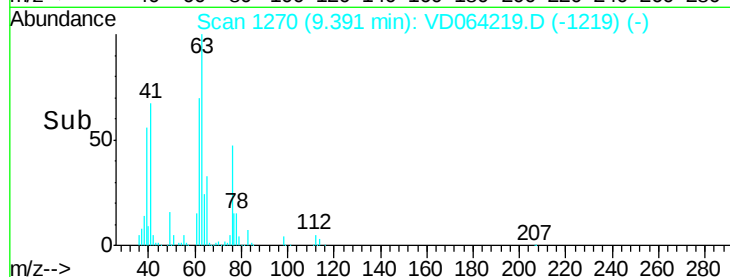
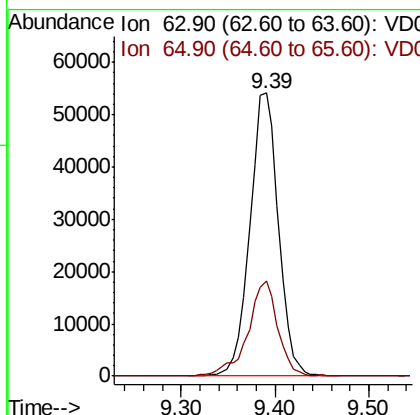
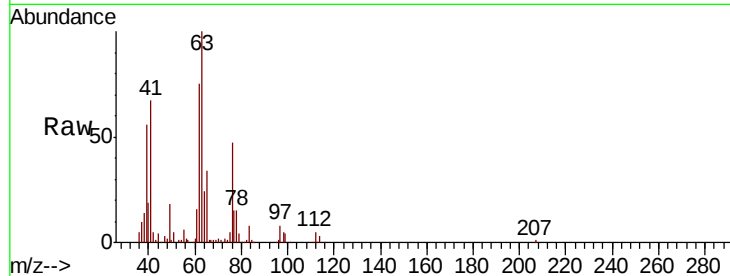
#45
 1,2-Dichloropropane
 Concen: 20.505 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion	63	Resp	113772
Ion Ratio	Lower	Upper	
63	100		
65	33.7	25.7	38.5

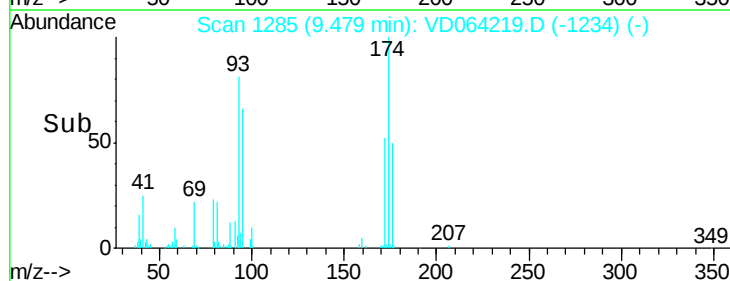
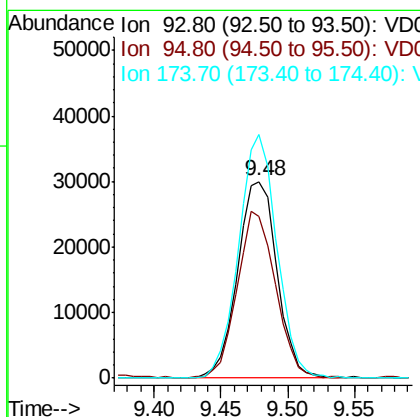
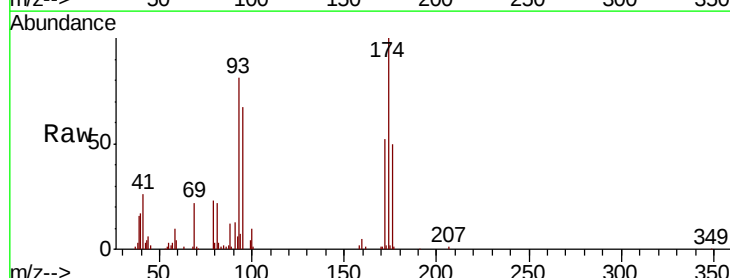
Manual Integrations
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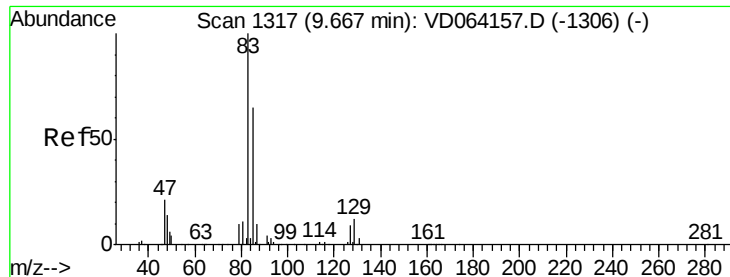
MMDADODA
 11/19/2019 12:23:12 PM



#46
 Dibromomethane
 Concen: 20.596 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Tgt Ion	93	Resp	61179
Ion Ratio	Lower	Upper	
93	100		
95	83.1	65.5	98.3
174	120.0	93.9	140.9





#47

Bromodichloromethane

Concen: 20.916 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

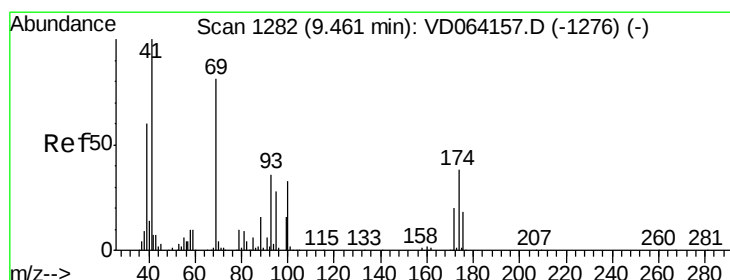
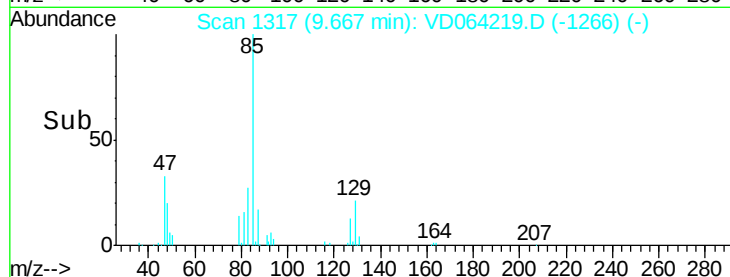
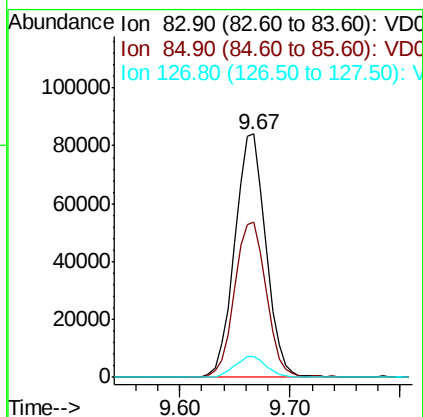
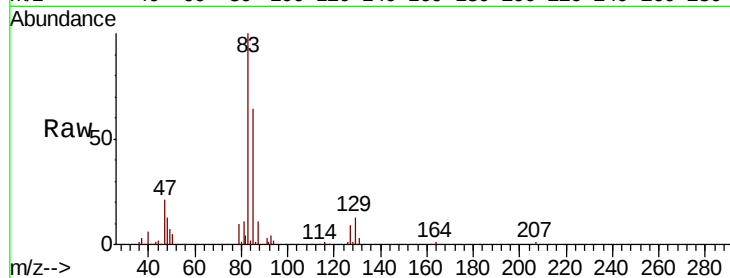
ClientSampleId :

VD1115SBS01

Tot Ion:	83	Resp:	167354
Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.2	78.4
127	8.5	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.844 ug/l

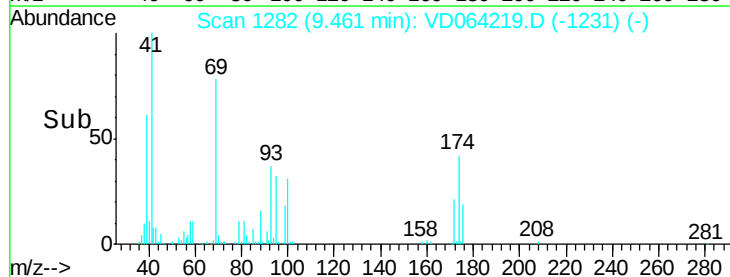
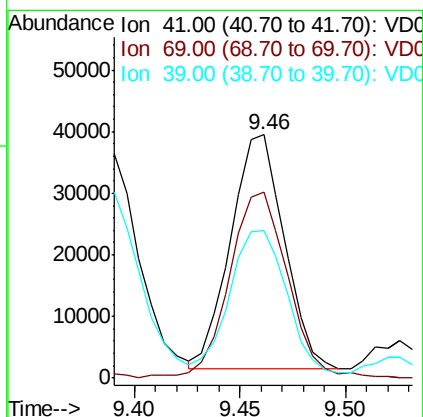
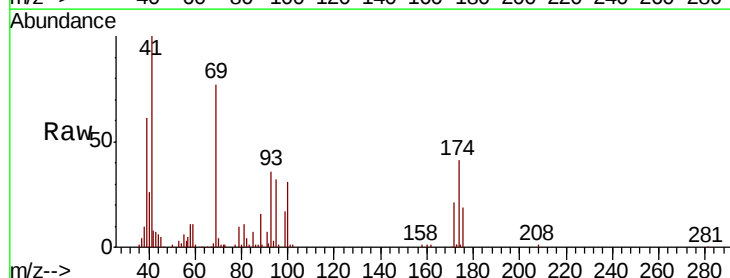
RT: 9.46 min Scan# 1282

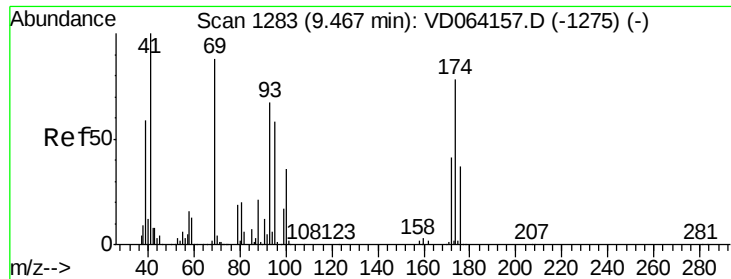
Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion:	41	Resp:	66760
Ion	Ratio	Lower	Upper
41	100		
69	86.9	64.6	97.0
39	64.4	48.2	72.2





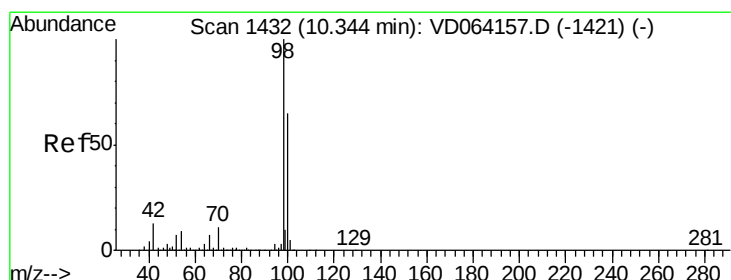
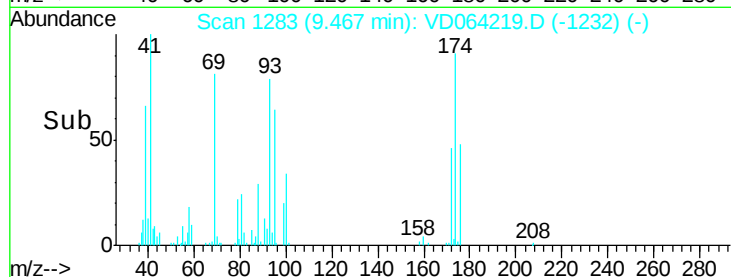
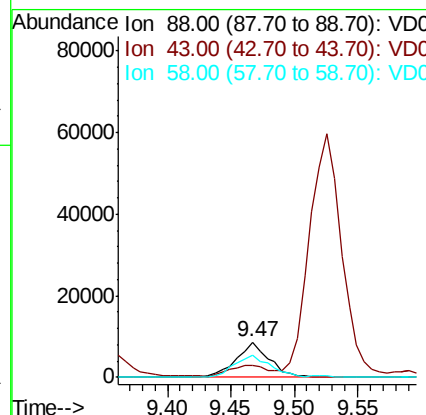
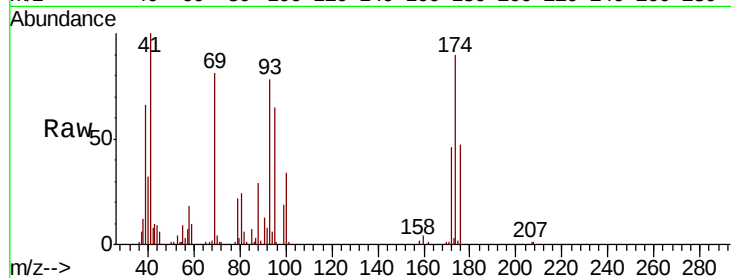
#49
1,4-Dioxane
Concen: 432.439 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	88	Resp	15427
Ion	Ratio	Lower	Upper
88	100		
43	31.2	29.8	44.8
58	69.3	58.1	87.1

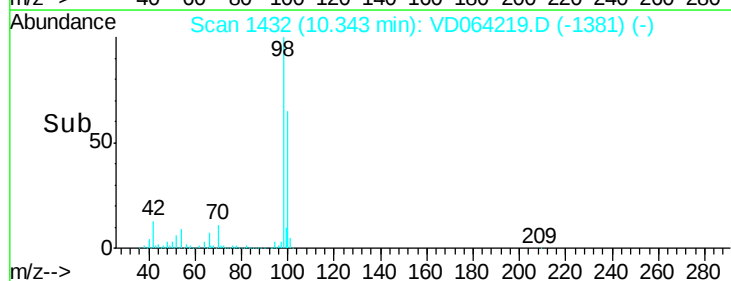
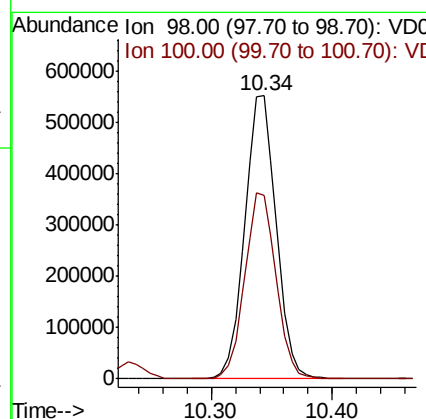
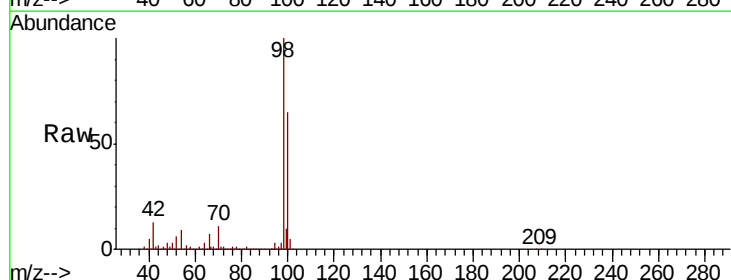
Manual Integrations
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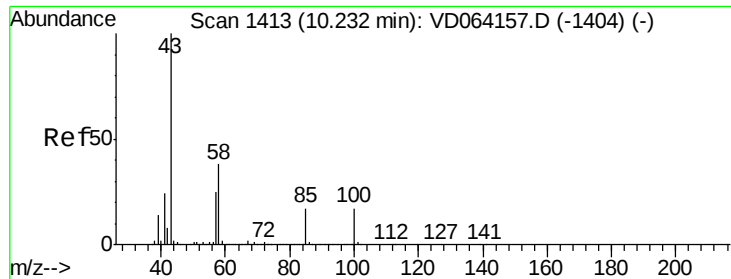
MMDADODA
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#50
Toluene-d8
Concen: 51.448 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	98	Resp	1006846
Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.6	78.8





#51

4-Methyl-2-Pentanone

Concen: 100.083 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 43 Resp: 347720

Ion Ratio Lower Upper

43 100

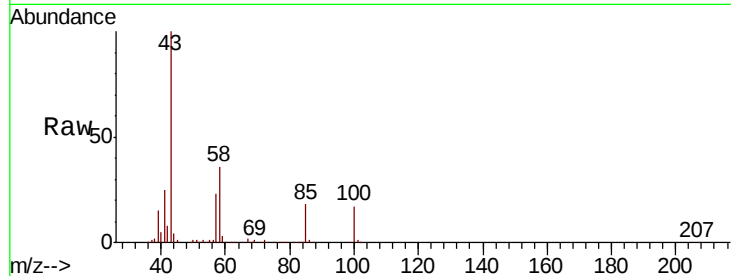
58 37.5 30.2 45.4

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

200000

150000

100000

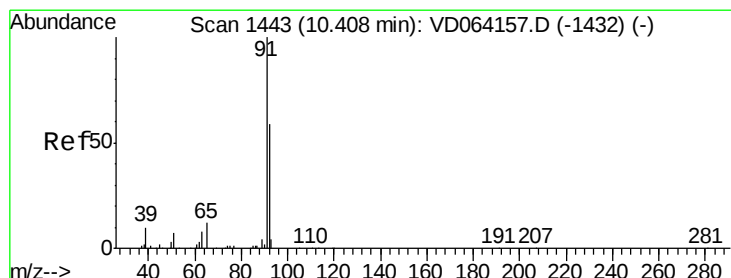
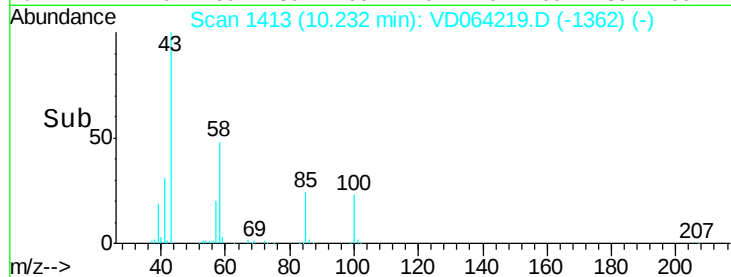
50000

0

10.20

10.30

Time-->



#52

Toluene

Concen: 20.651 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.01 min

Lab File: VD064219.D

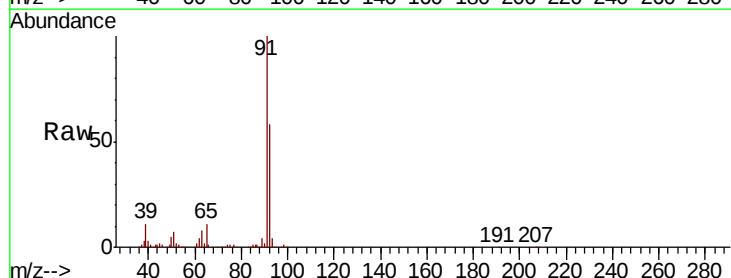
Acq: 15 Nov 2019 11:17

Tgt Ion: 92 Resp: 309555

Ion Ratio Lower Upper

92 100

91 172.0 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.40

300000

200000

100000

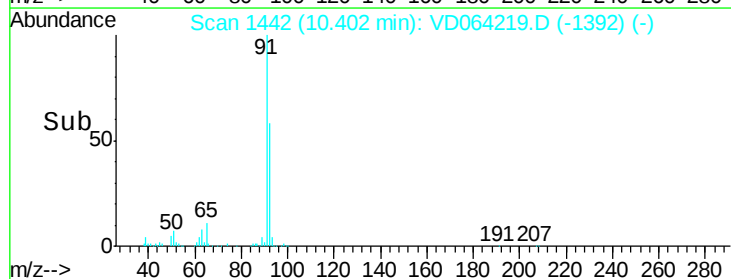
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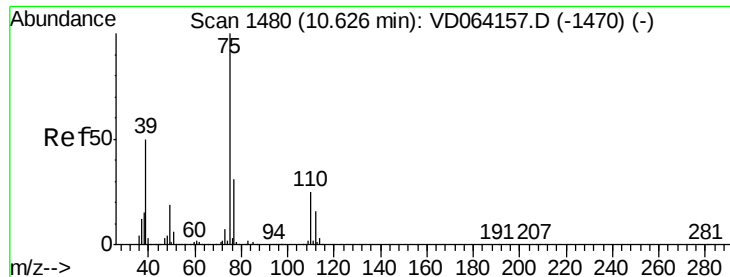
10.30

10.40

10.50

Time-->





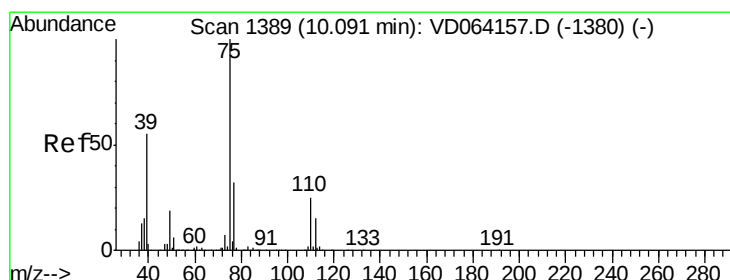
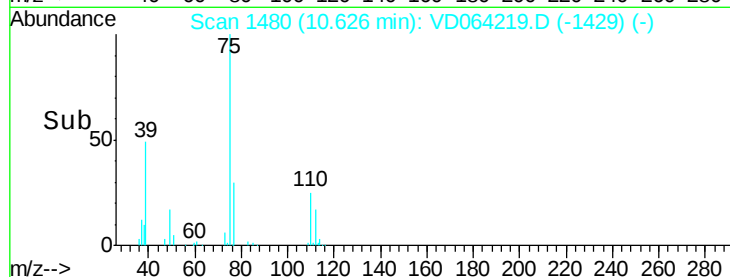
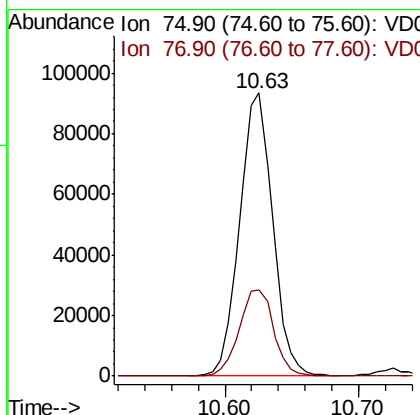
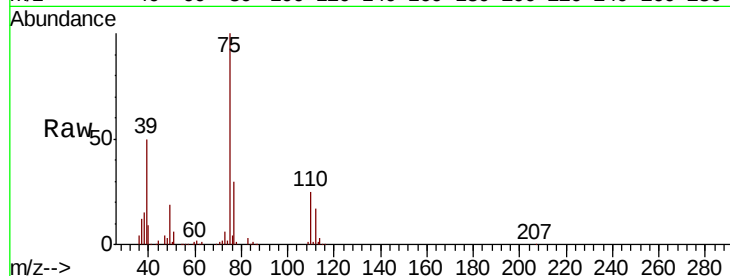
#53
t-1,3-Dichloropropene
Concen: 19.966 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion: 75 Resp: 160043
Ion Ratio Lower Upper
75 100
77 30.3 24.7 37.1

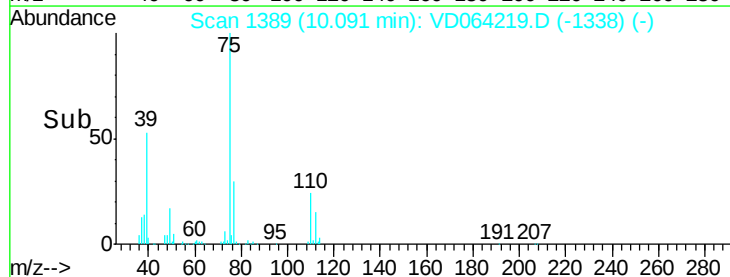
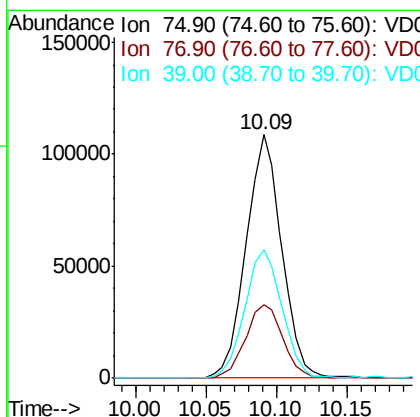
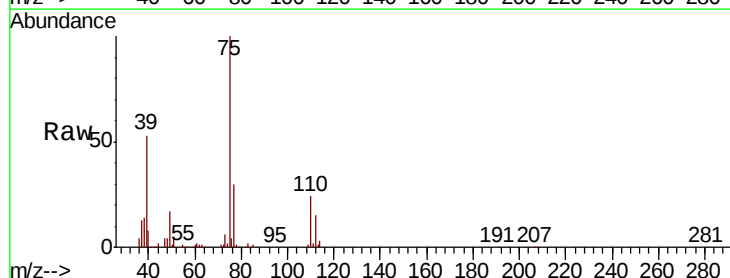
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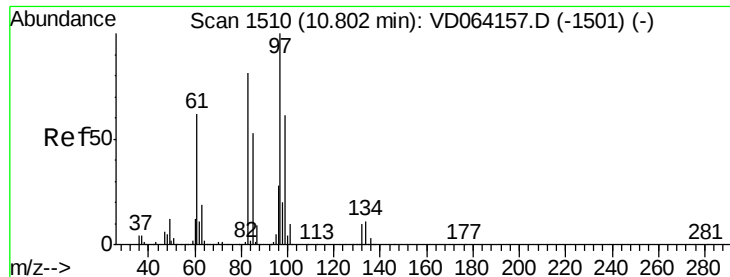
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11/19/2019 12:23:12 PM



#54
cis-1,3-Dichloropropene
Concen: 20.521 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion: 75 Resp: 191949
Ion Ratio Lower Upper
75 100
77 30.2 25.2 37.8
39 52.7 44.2 66.2





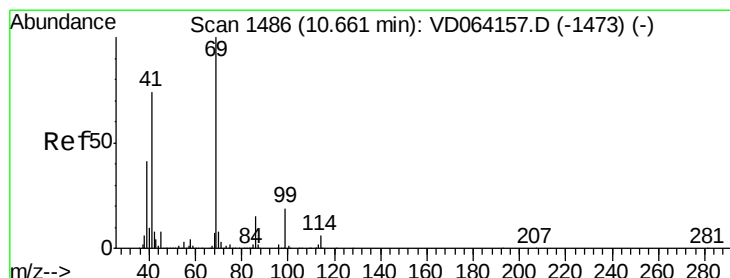
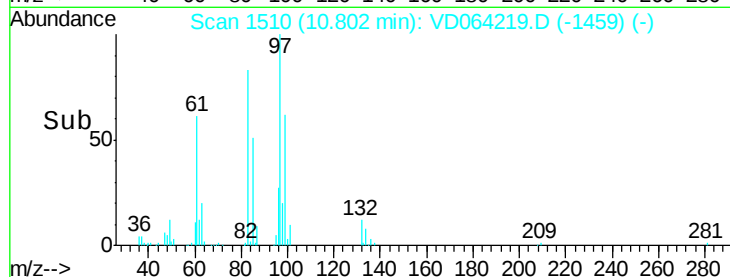
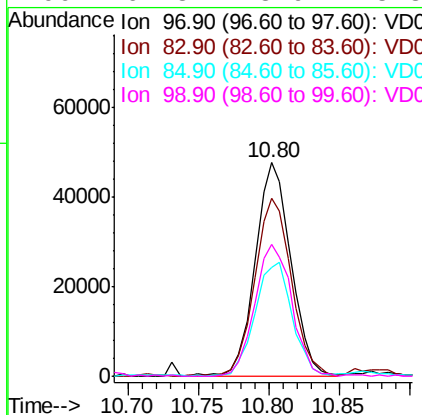
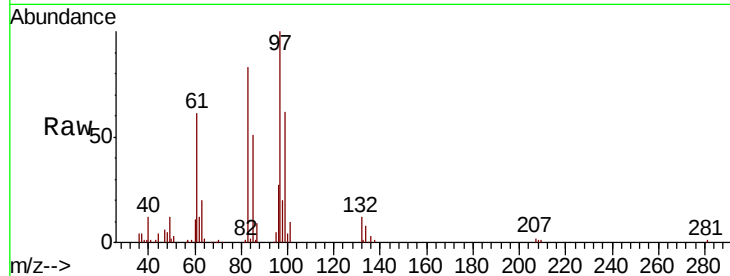
#55
 1,1,2-Trichloroethane
 Concen: 21.111 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion:	97	Resp:	85070
Ion	Ratio	Lower	Upper
97	100		
83	83.0	65.1	97.7
85	51.2	42.0	63.0
99	61.8	48.9	73.3

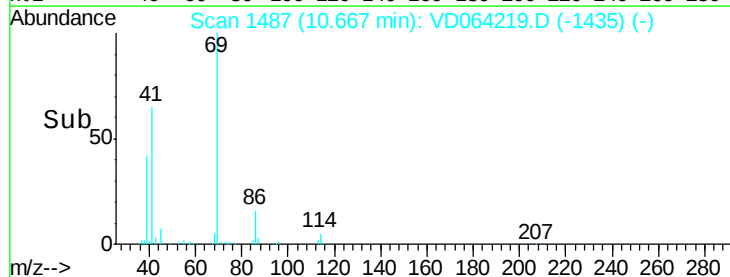
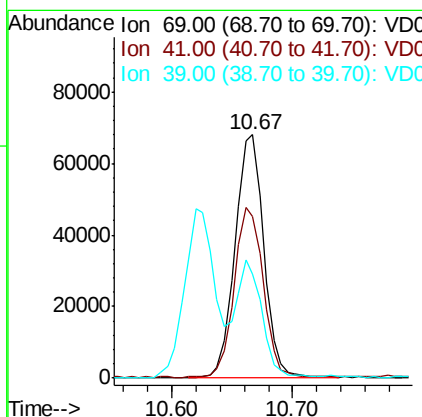
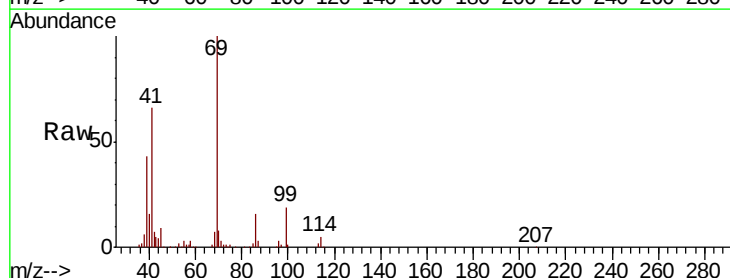
Manual Integrations
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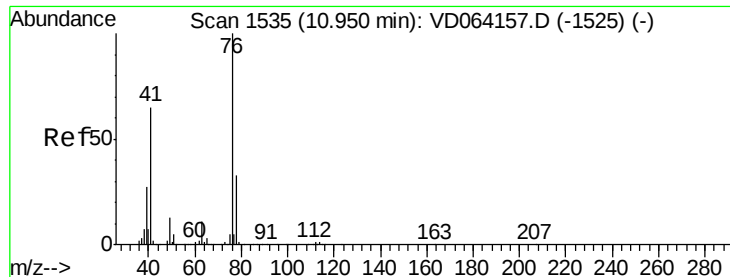
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#56
 Ethyl methacrylate
 Concen: 20.151 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Tgt Ion:	69	Resp:	113588
Ion	Ratio	Lower	Upper
69	100		
41	70.5	57.9	86.9
39	43.7	29.0	43.4#





#57

1,3-Dichloropropane

Concen: 20.764 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 76 Resp: 145918

Ion Ratio Lower Upper

76 100

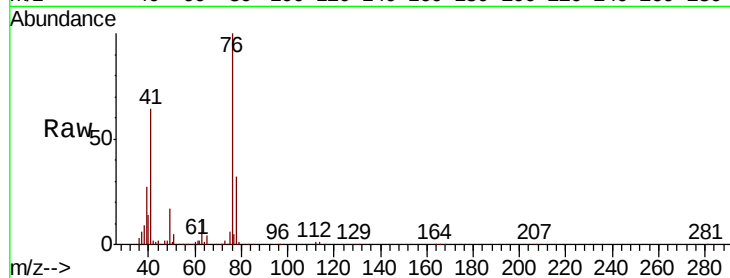
78 32.3 26.2 39.4

Manual Integrations

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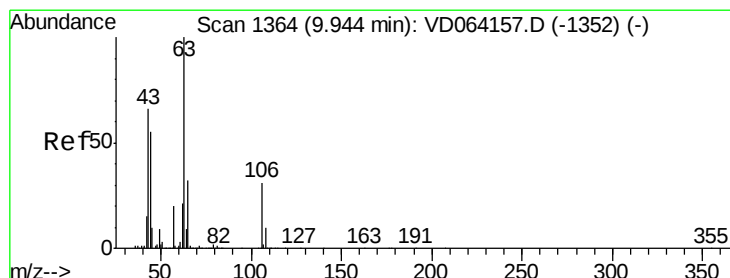
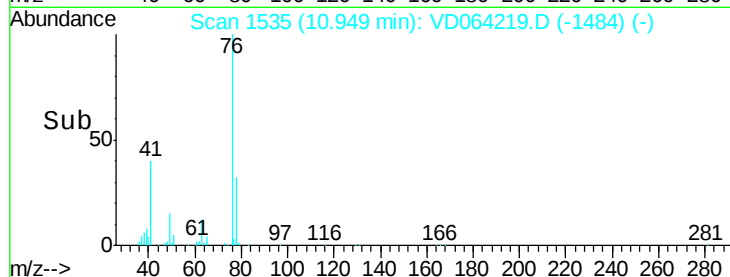
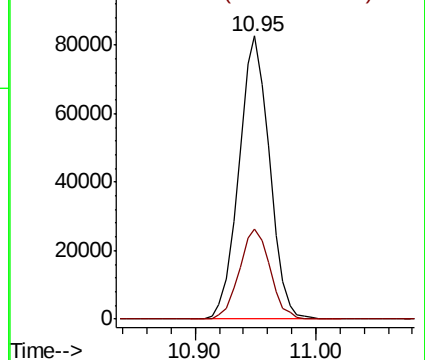
MMDADODA

11/19/2019 12:23:12 PM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 100.060 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD064219.D

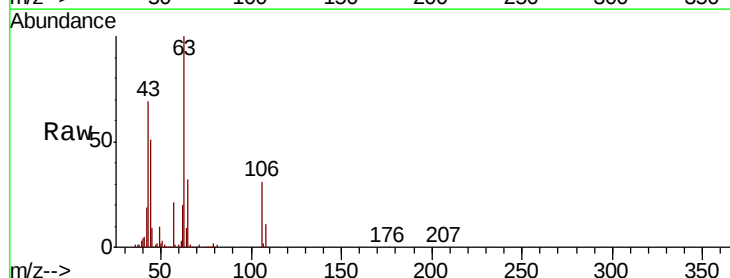
Acq: 15 Nov 2019 11:17

Tgt Ion: 63 Resp: 228470

Ion Ratio Lower Upper

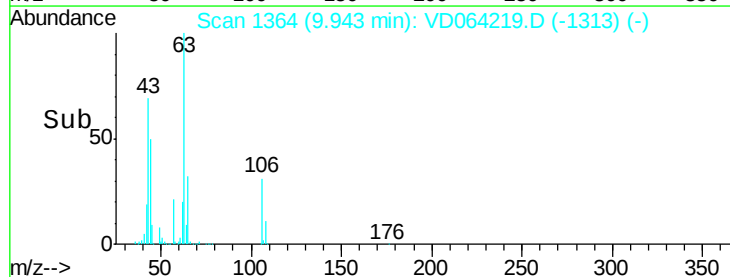
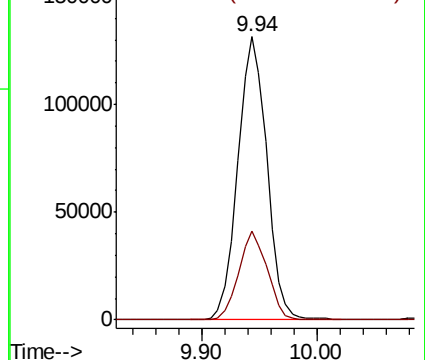
63 100

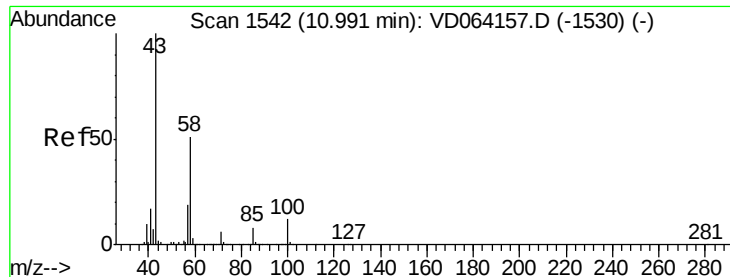
106 30.8 24.1 36.1



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V





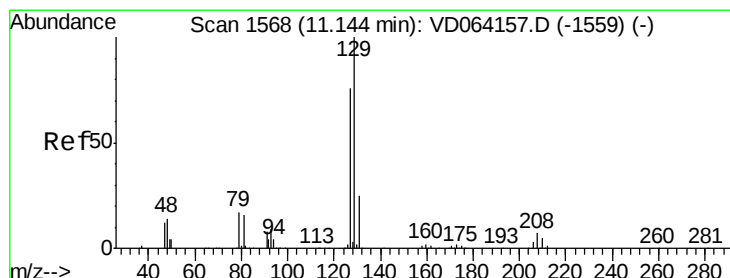
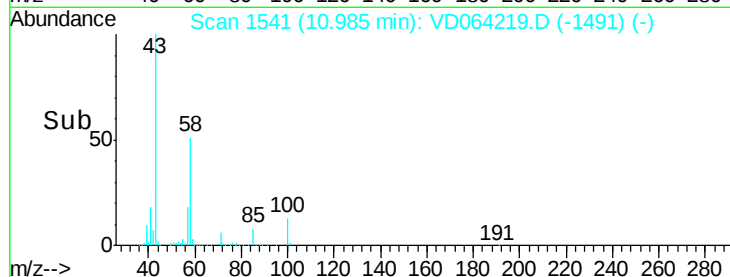
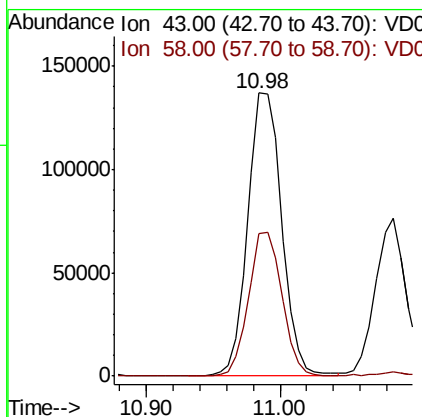
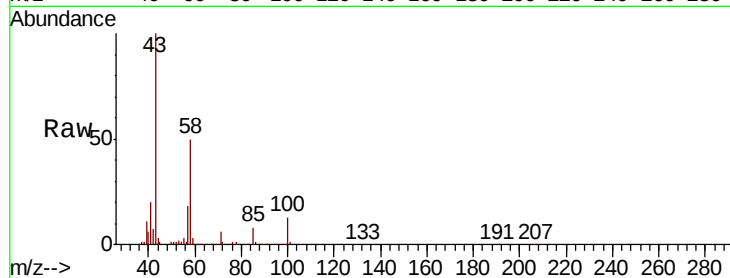
#59
2-Hexanone
Concen: 97.476 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.2	25.9	77.7

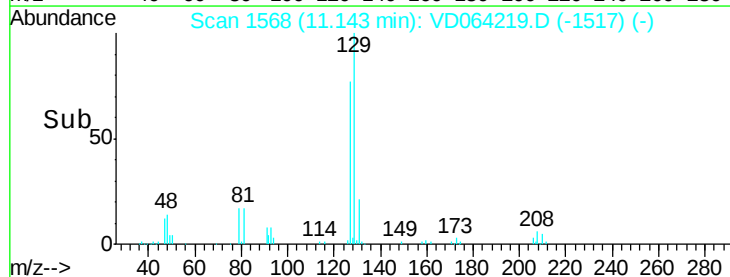
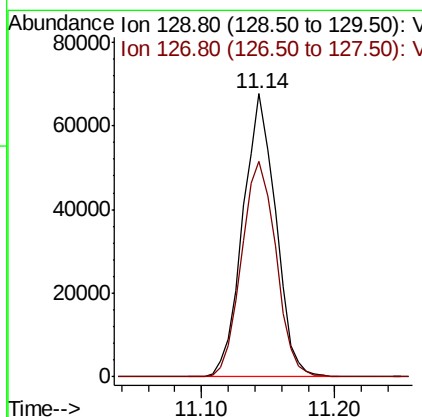
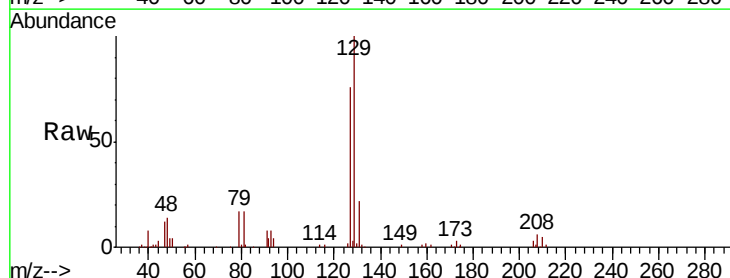
Manual Integrations
APPROVED

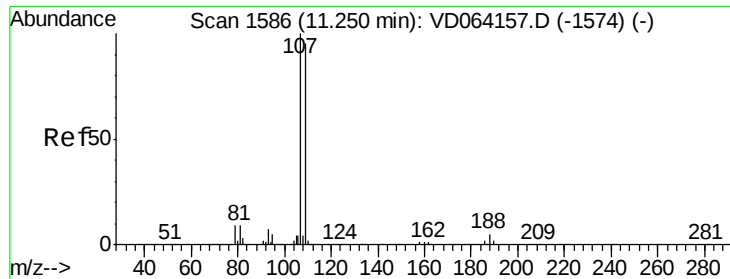
MMDADODA
11/19/2019 12:23:12 PM



#60
Dibromochloromethane
Concen: 20.445 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.9	38.6	115.8





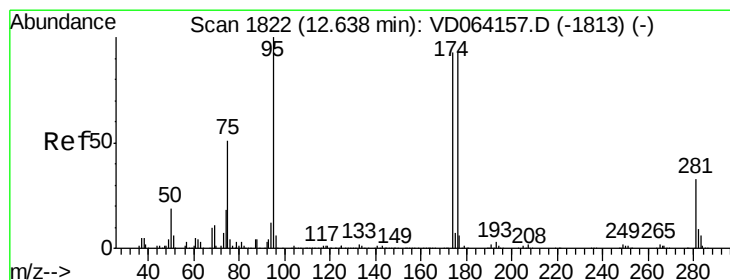
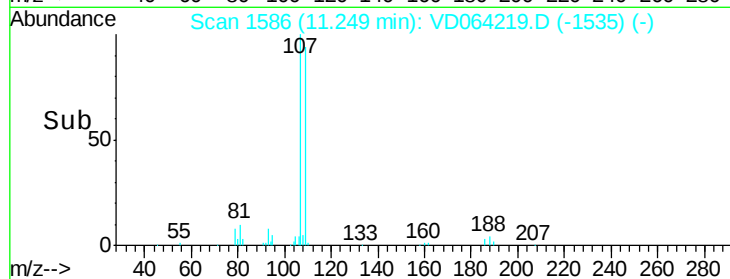
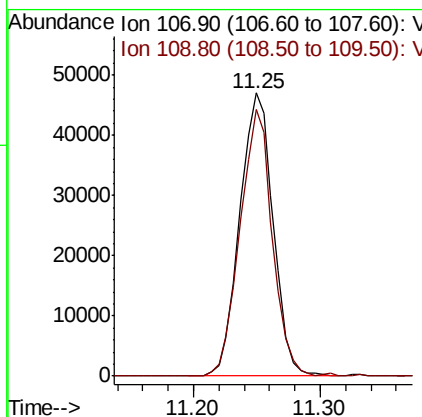
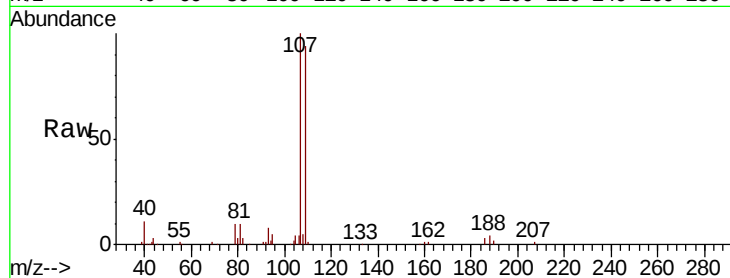
#61
 1,2-Dibromoethane
 Concen: 21.240 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion: 107 Resp: 85723
 Ion Ratio Lower Upper
 107 100
 109 91.0 75.1 112.7

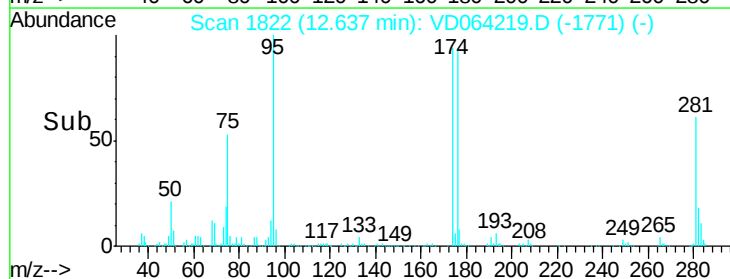
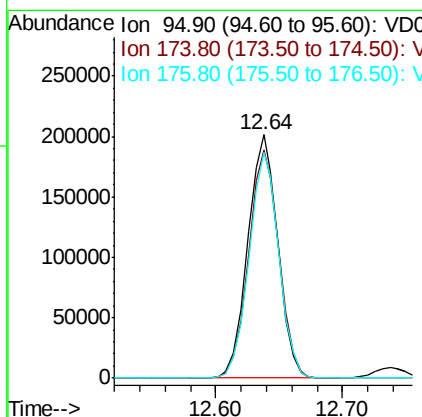
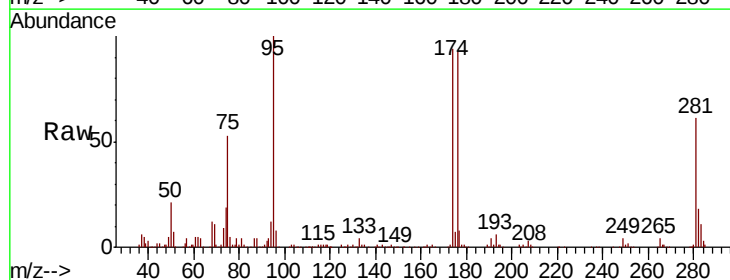
Manual Integrations
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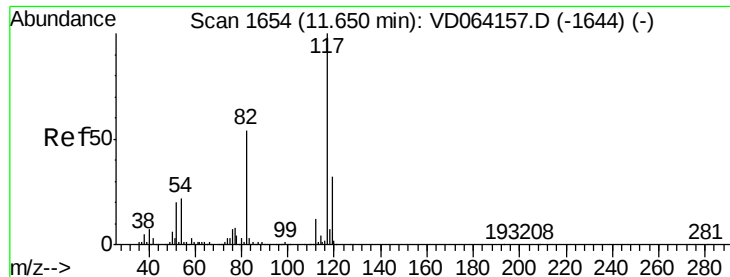
MMDADODA
 11/19/2019 12:23:12 PM



#62
 4-Bromofluorobenzene
 Concen: 48.894 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: VD064219.D
 Acq: 15 Nov 2019 11:17

Tgt Ion: 95 Resp: 331369
 Ion Ratio Lower Upper
 95 100
 174 94.3 0.0 183.6
 176 91.9 0.0 180.2





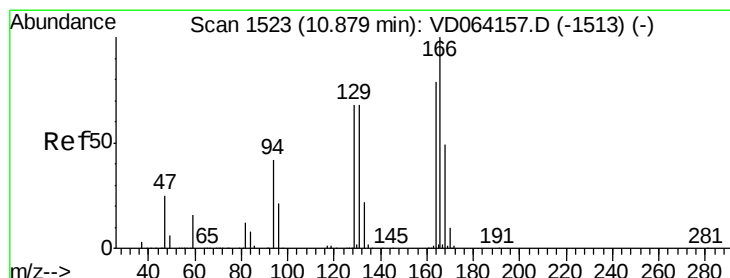
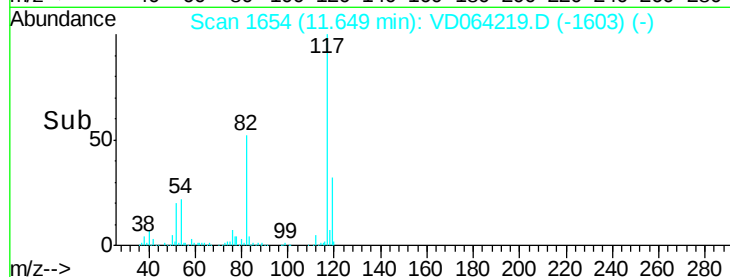
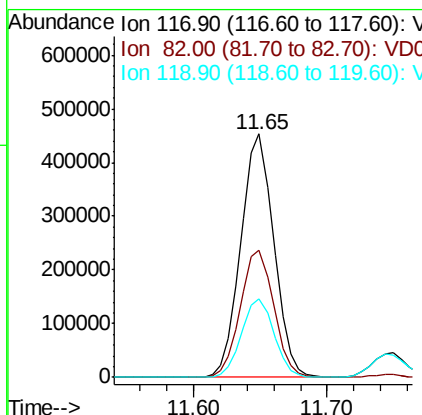
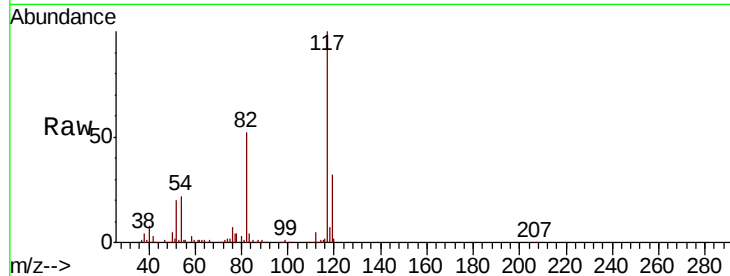
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.8	64.2
119	32.5	25.6	38.4

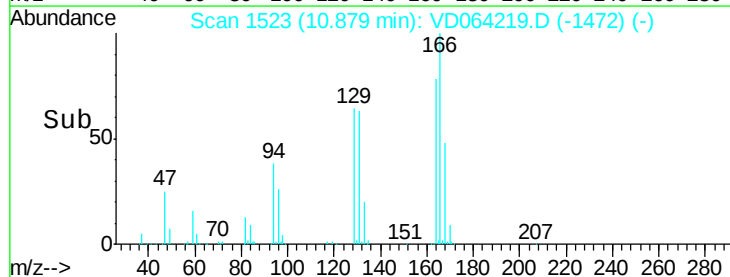
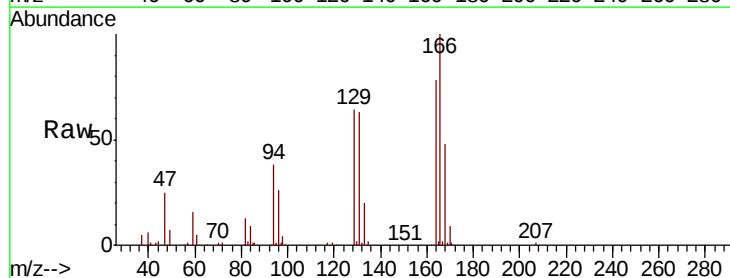
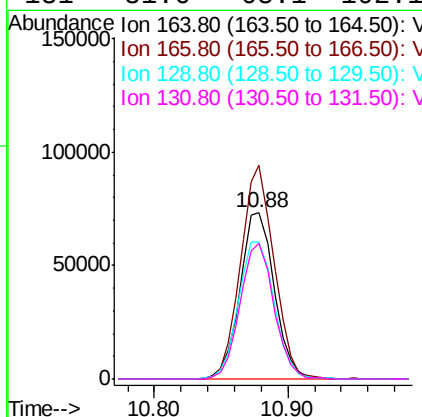
Manual Integrations
APPROVED

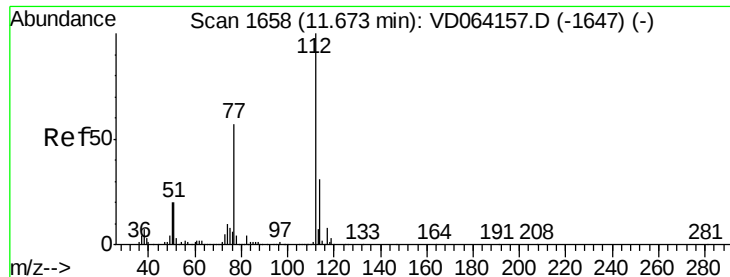
MMDADODA
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#64
Tetrachloroethene
Concen: 21.790 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	100.8	151.2
129	82.6	68.7	103.1
131	81.6	68.1	102.1





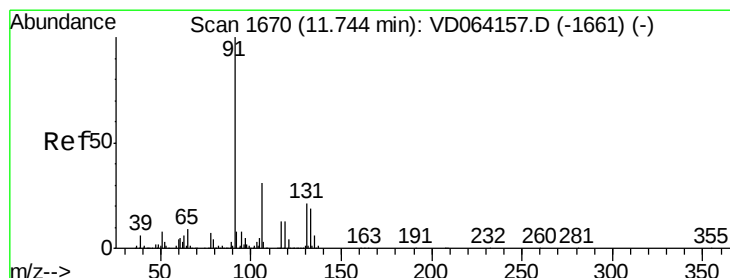
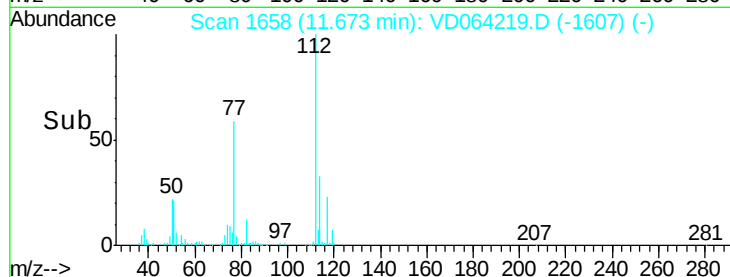
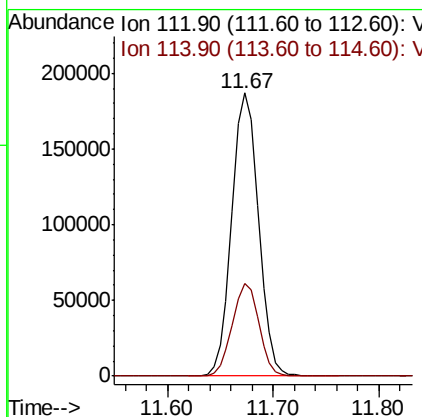
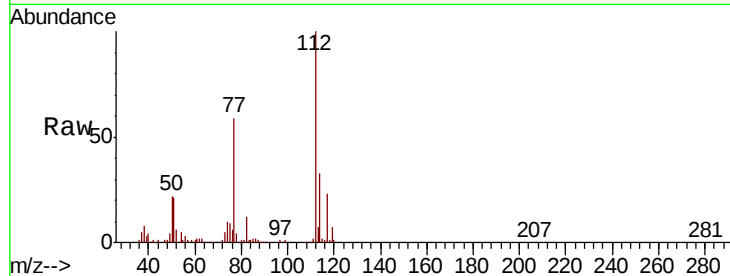
#65
Chlorobenzene
Concen: 20.608 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.2	37.8

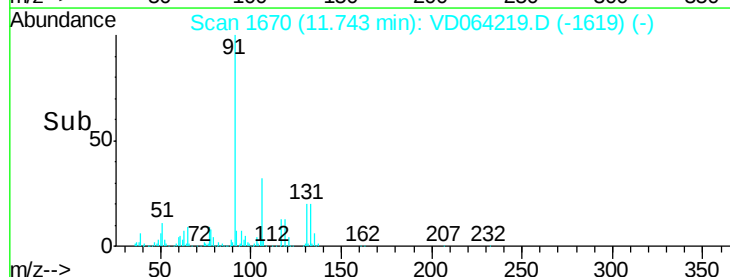
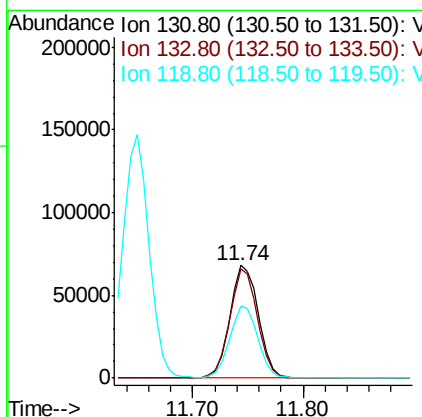
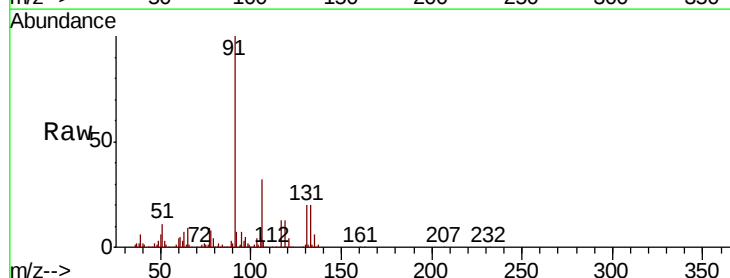
Manual Integrations
APPROVED

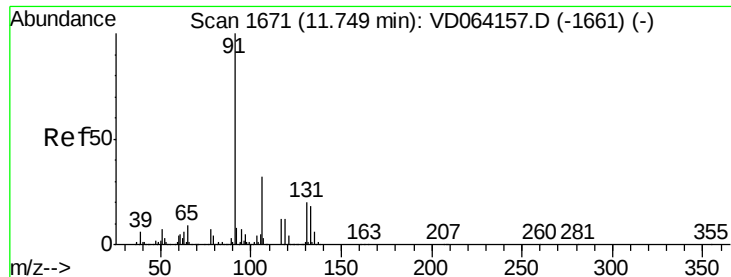
MMDADODA
11/19/2019 12:23:12 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.510 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.9
119	63.5	31.1	93.3





#67

Ethyl Benzene

Concen: 21.062 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 91 Resp: 602900

Ion Ratio Lower Upper

91 100

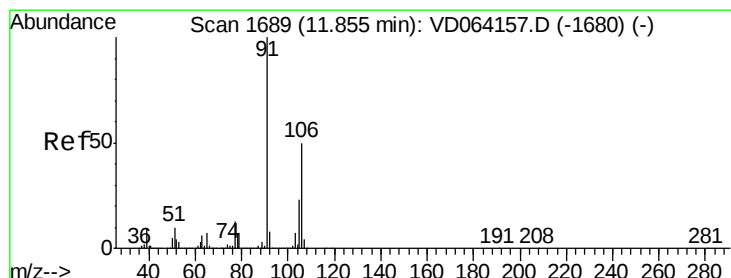
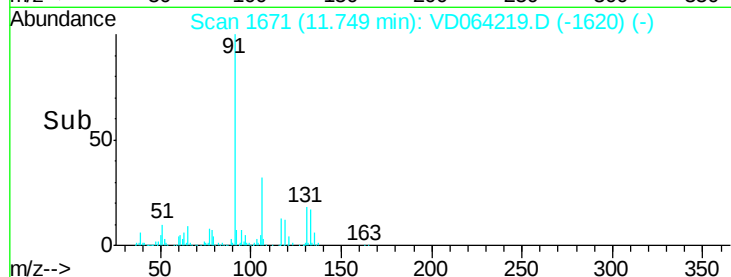
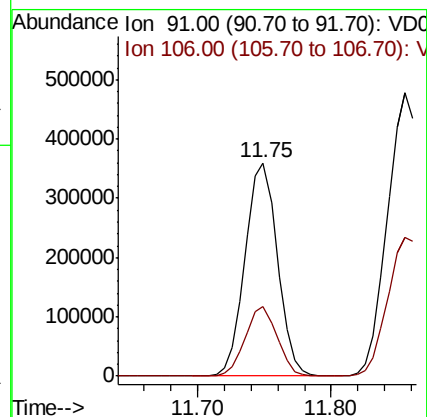
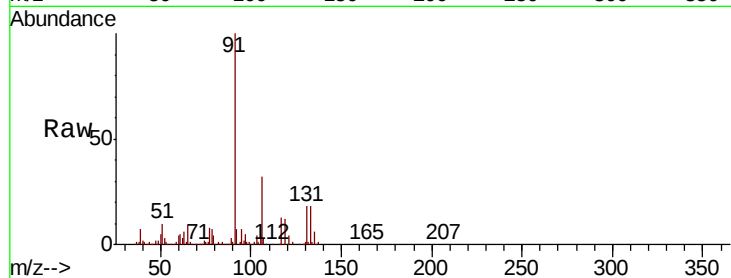
106 32.4 25.5 38.3

Manual Integrations

APPROVED

MMDADODA

11/19/2019 12:23:12 PM



#68

m/p-Xylenes

Concen: 41.737 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD064219.D

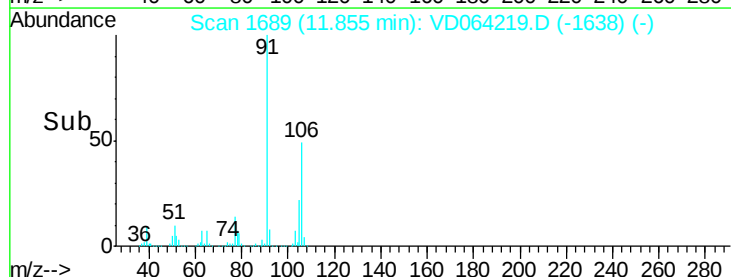
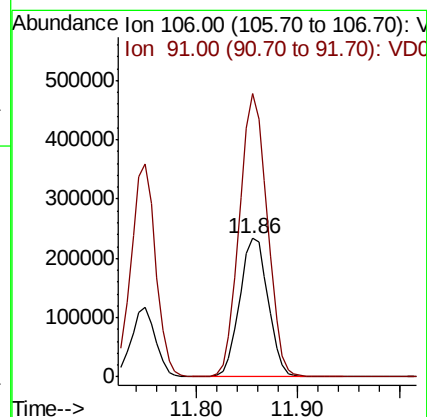
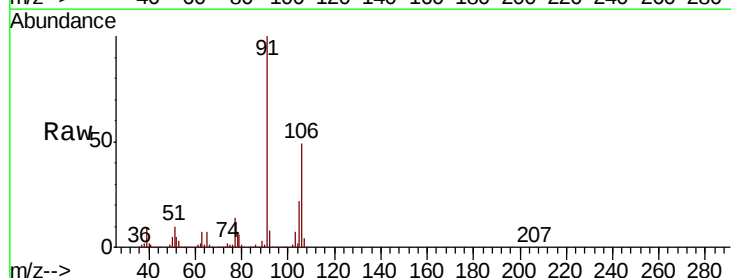
Acq: 15 Nov 2019 11:17

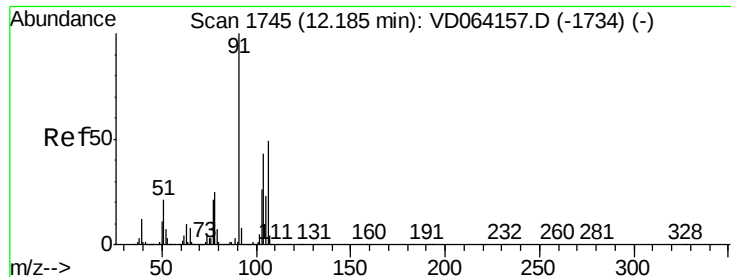
Tgt Ion: 106 Resp: 457939

Ion Ratio Lower Upper

106 100

91 199.6 160.3 240.5





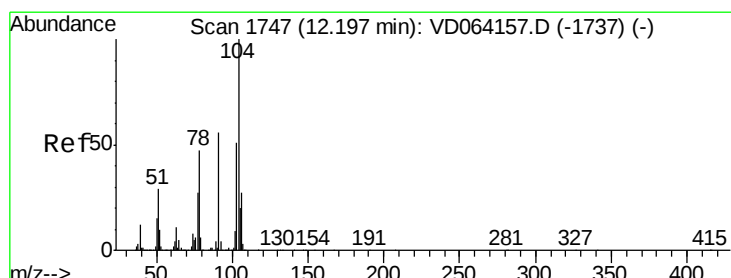
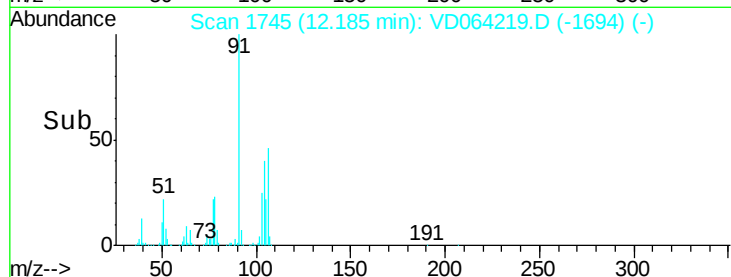
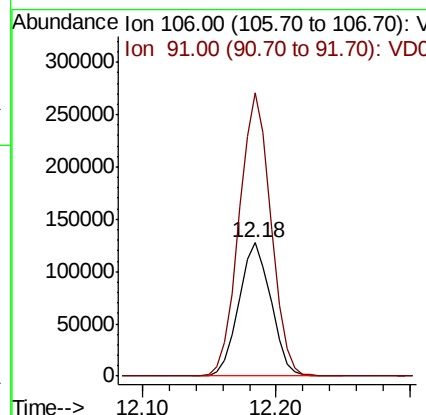
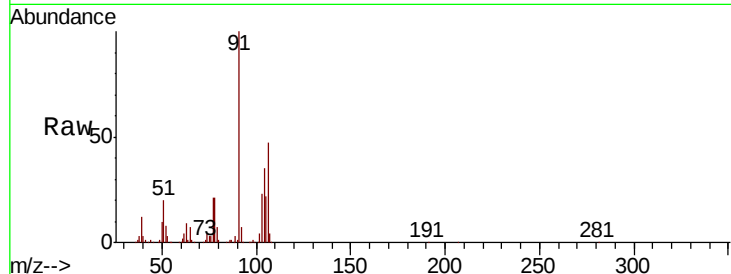
#69
o-Xylene
Concen: 20.850 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.4	105.1	315.3

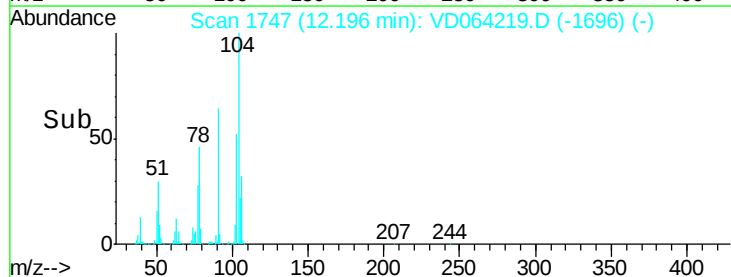
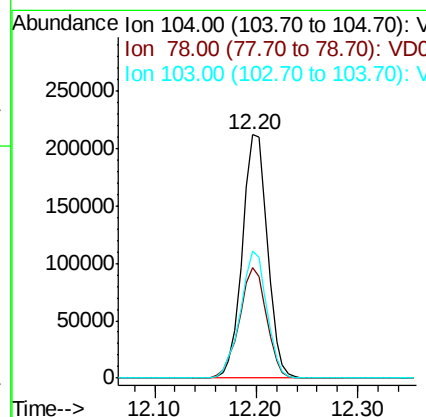
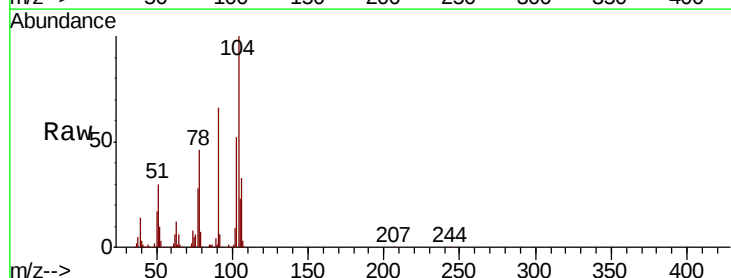
Manual Integrations
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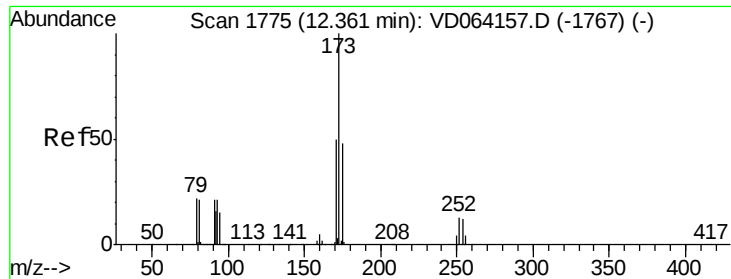
MMDADODA
11/19/2019 12:23:12 PM



#70
Styrene
Concen: 20.601 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.1	39.9	59.9
103	54.7	43.4	65.0





#71

Bromoform

Concen: 20.995 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

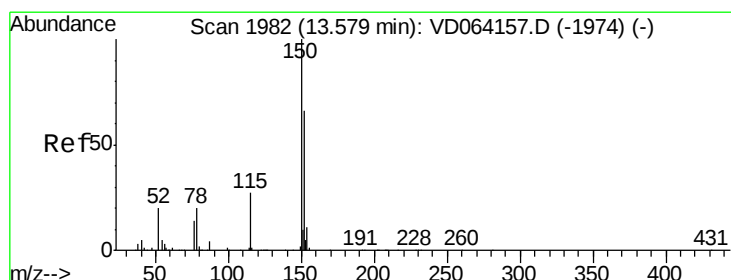
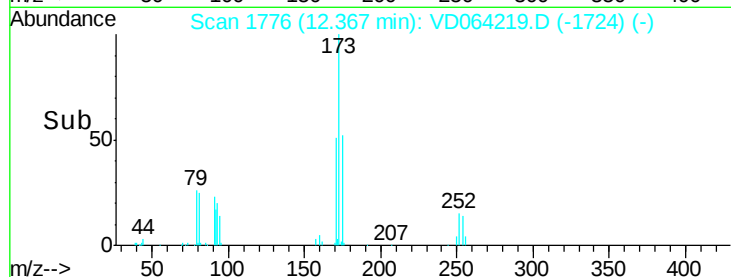
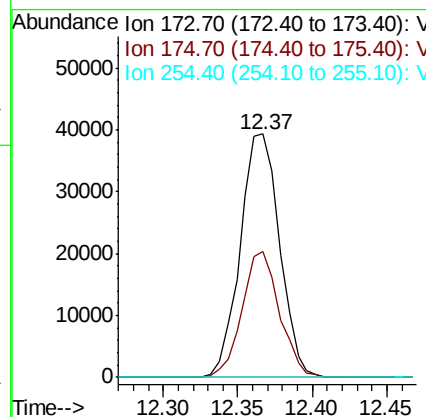
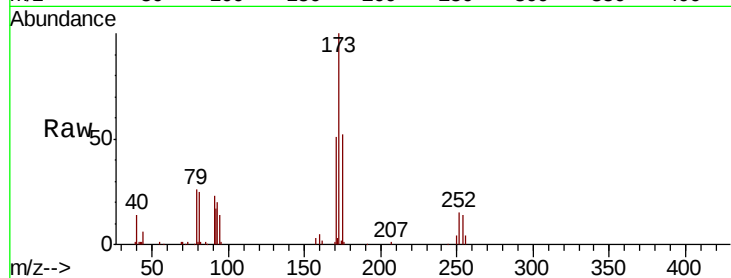
ClientSampleId :

VD1115SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.1	72.3
254	0.0	0.2	0.2

Manual Integrations
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11/19/2019 12:23:12 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

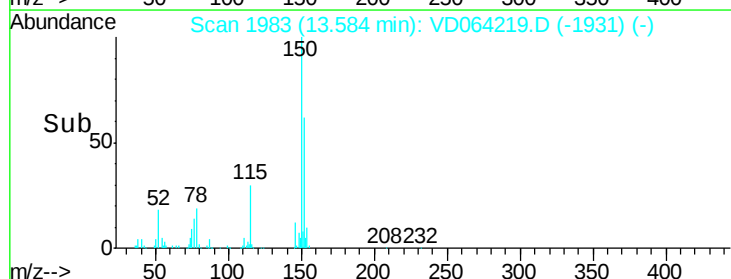
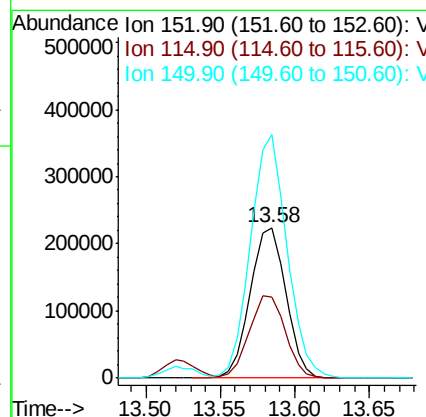
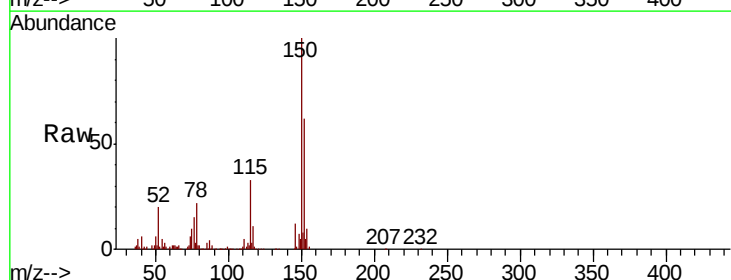
RT: 13.58 min Scan# 1983

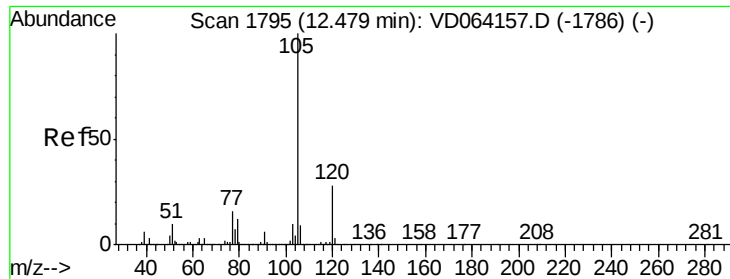
Delta R.T. 0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	27.4	82.2
150	165.4	0.0	351.6





#73

Isopropylbenzene

Concen: 21.771 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 105 Resp: 592948

Ion Ratio Lower Upper

105 100

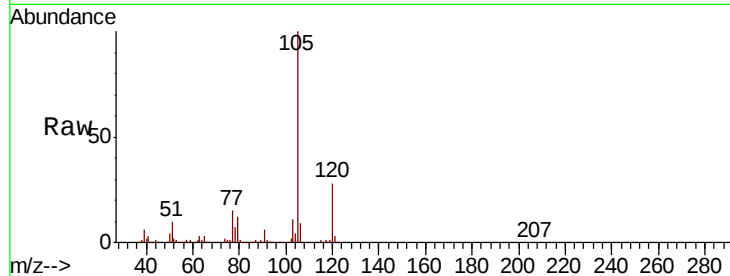
120 26.9 13.6 40.8

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.48

400000

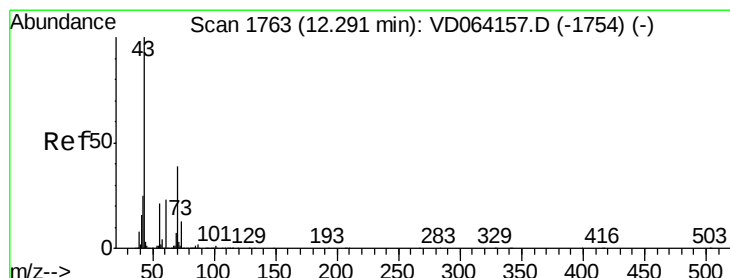
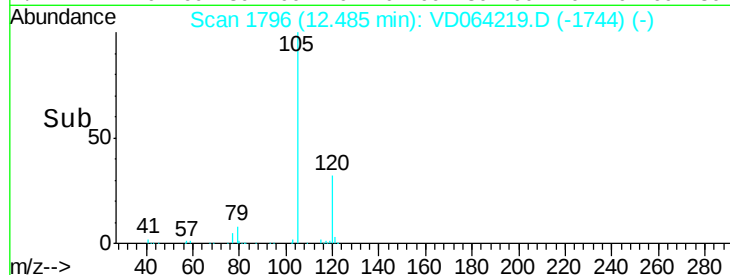
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 20.364 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion: 43 Resp: 130974

Ion Ratio Lower Upper

43 100

70 40.6 32.4 48.6

55 22.2 17.9 26.9

61 23.4 19.0 28.4

Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

120000

100000

80000

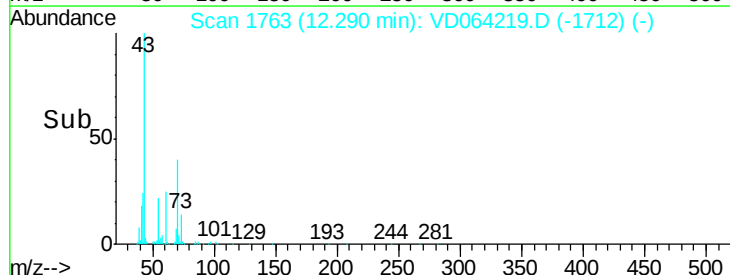
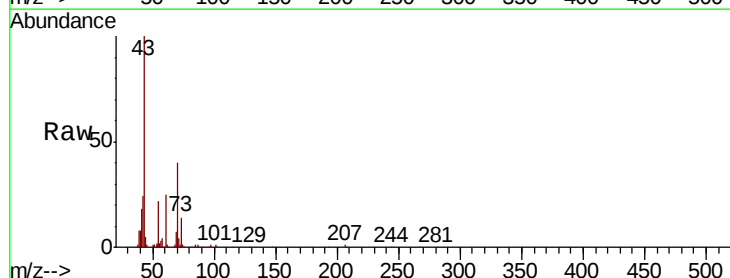
60000

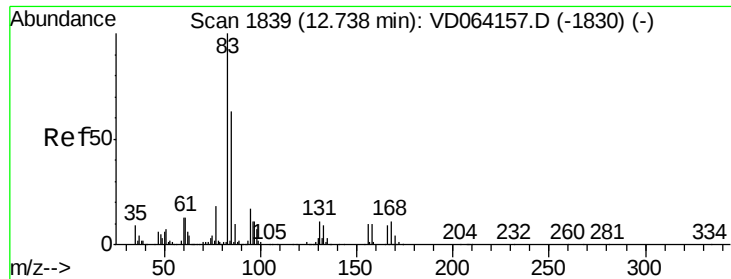
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.198 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

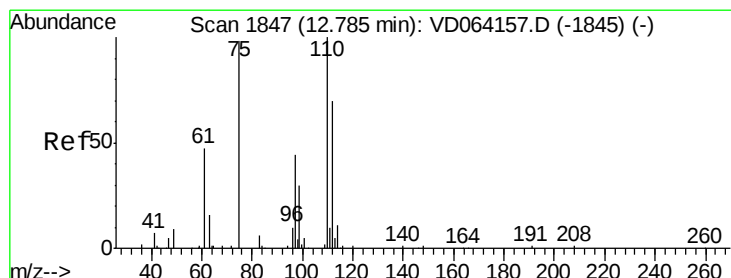
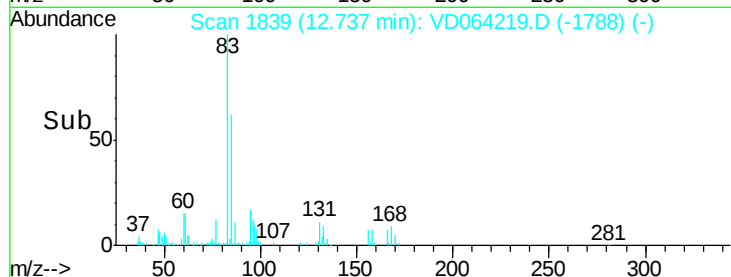
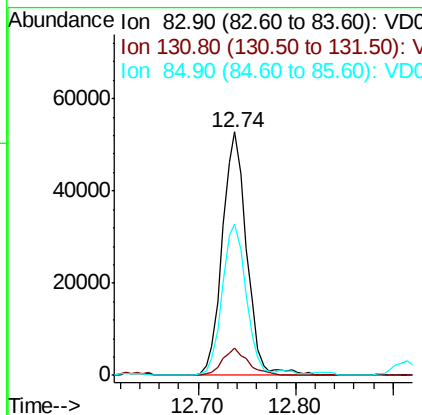
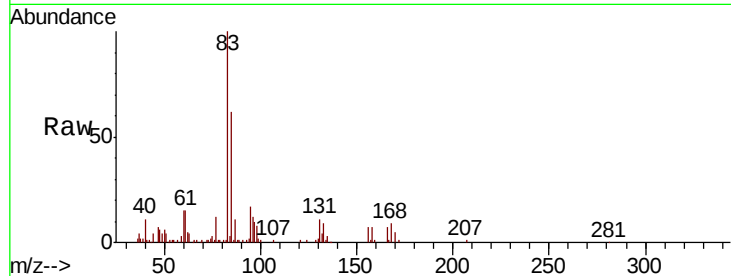
ClientSampleId :

VD1115SBS01

Tot Ion:	83	Resp:	91098
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.9	17.7
85	61.5	32.5	97.5

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#76

1,2,3-Trichloropropane

Concen: 18.599 ug/l m

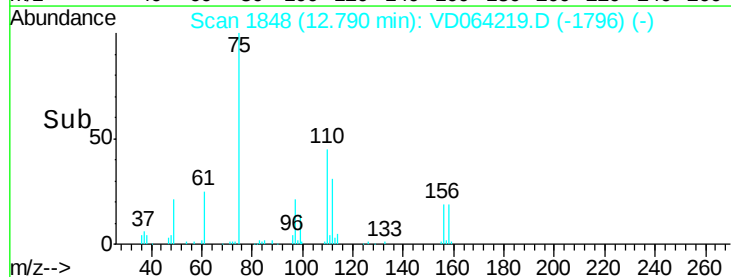
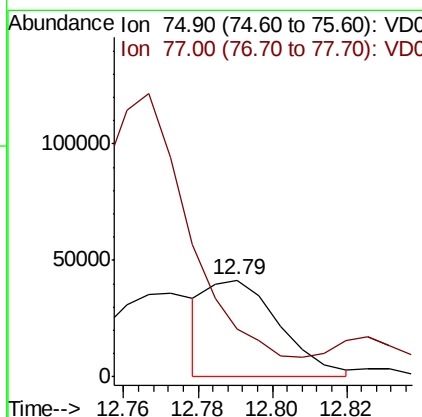
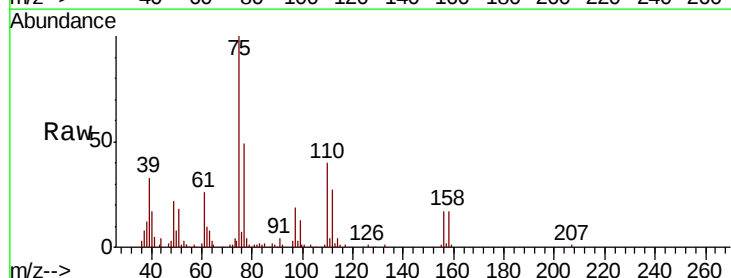
RT: 12.79 min Scan# 1848

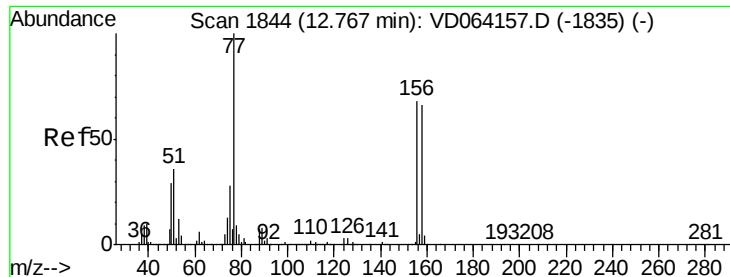
Delta R.T. 0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion:	75	Resp:	55589
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.024 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

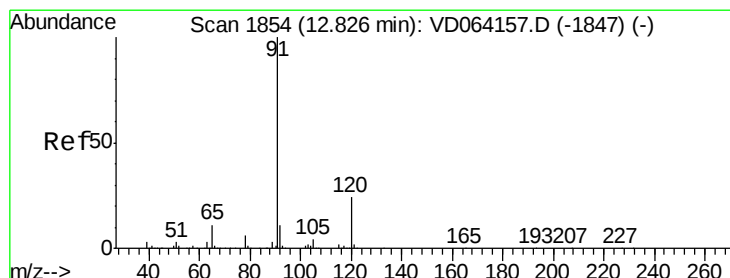
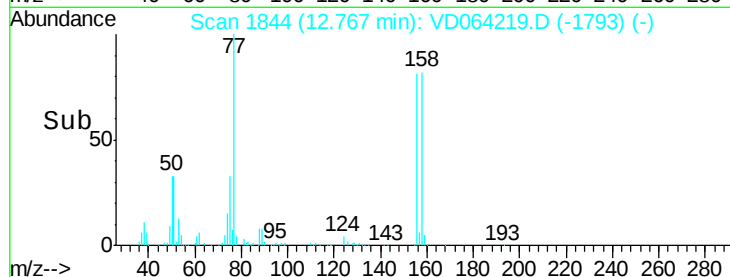
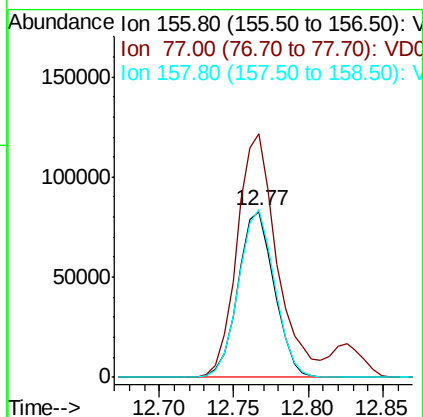
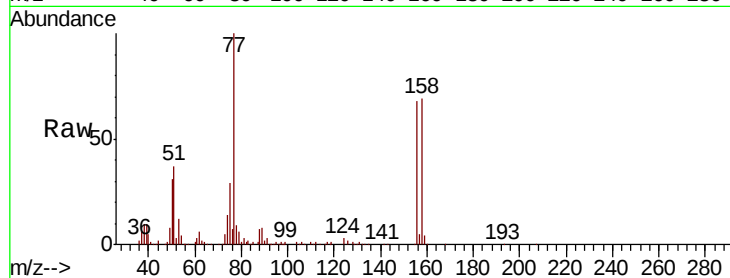
ClientSampleId :

VD1115SBS01

Tot Ion:	156	Resp:	139107
Ion Ratio	Lower	Upper	
156	100		
77	162.4	81.2	243.4
158	101.0	48.4	145.2

Manual Integrations
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#78

n-propylbenzene

Concen: 21.715 ug/l

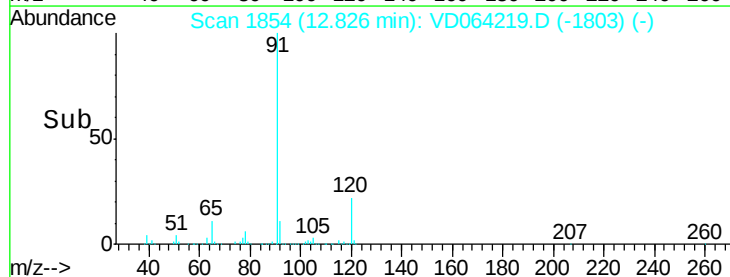
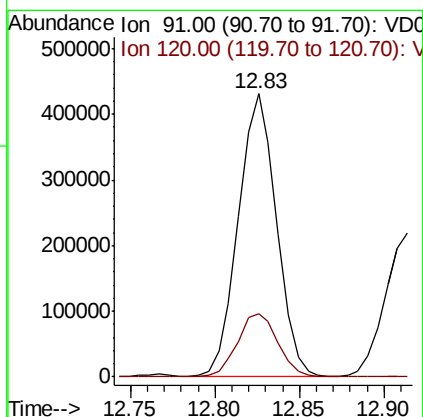
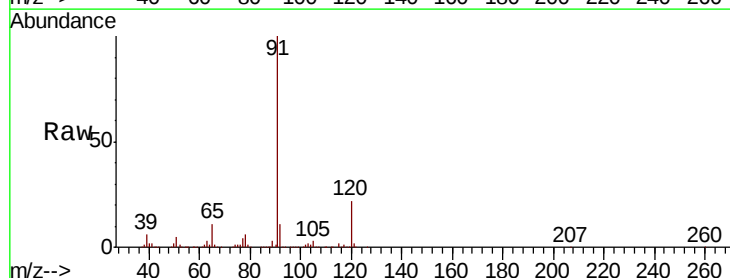
RT: 12.83 min Scan# 1854

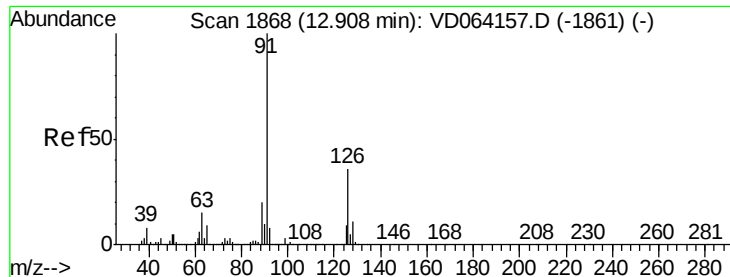
Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion:	91	Resp:	675689
Ion Ratio	Lower	Upper	
91	100		
120	23.5	11.8	35.4





#79

2-Chlorotoluene

Concen: 20.929 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 91 Resp: 367679

Ion Ratio Lower Upper

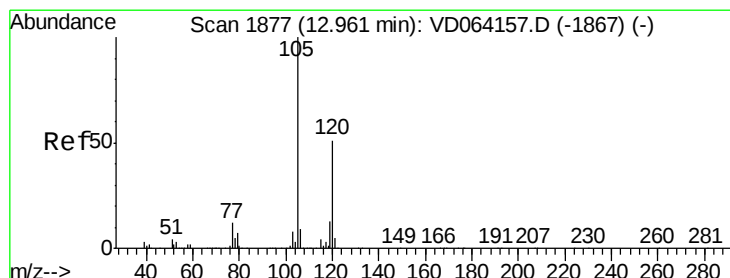
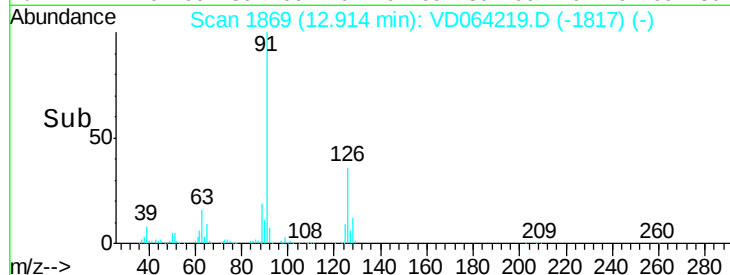
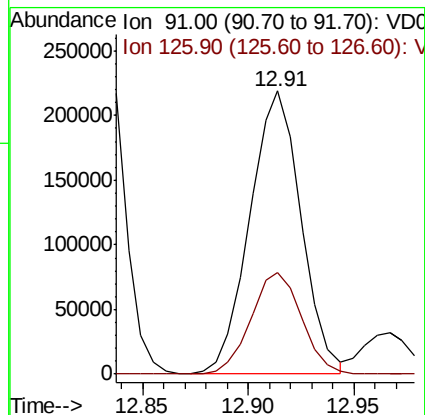
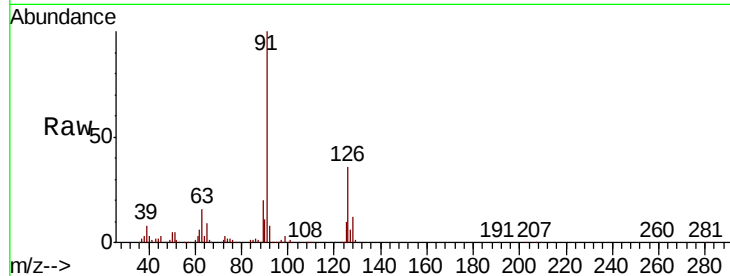
91 100

126 35.8 17.7 53.1

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 21.226 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VD064219.D

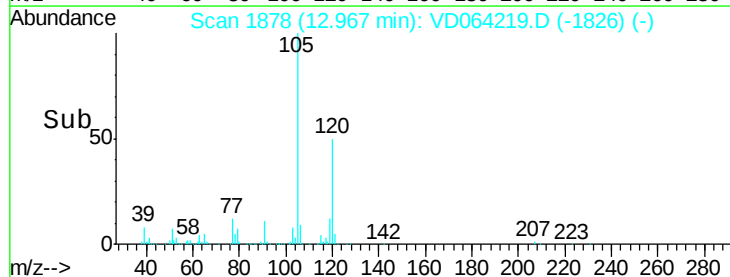
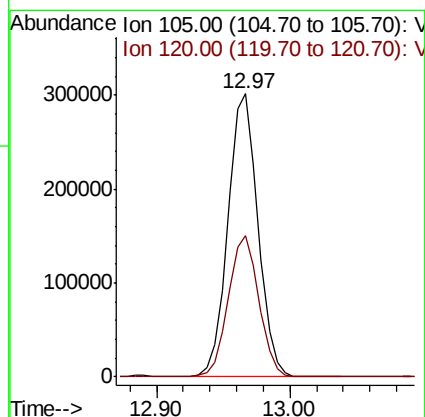
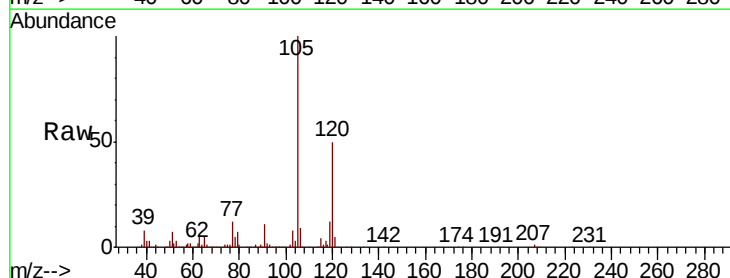
Acq: 15 Nov 2019 11:17

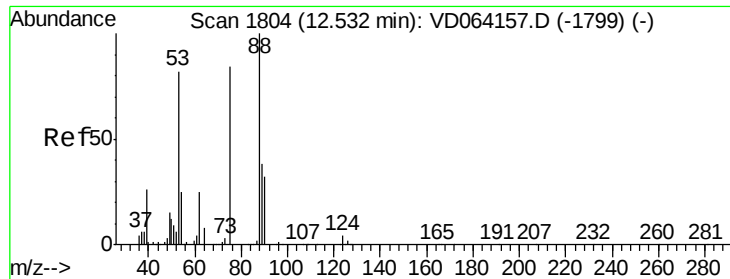
Tgt Ion: 105 Resp: 475014

Ion Ratio Lower Upper

105 100

120 50.9 25.4 76.4





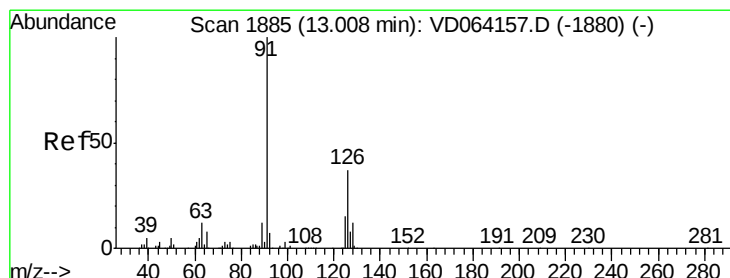
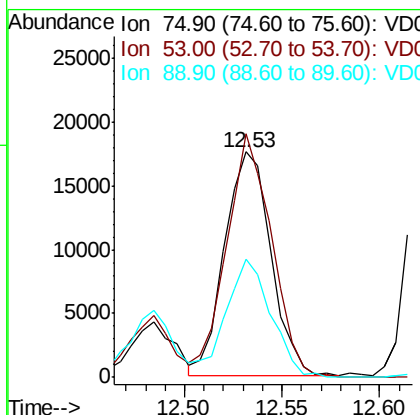
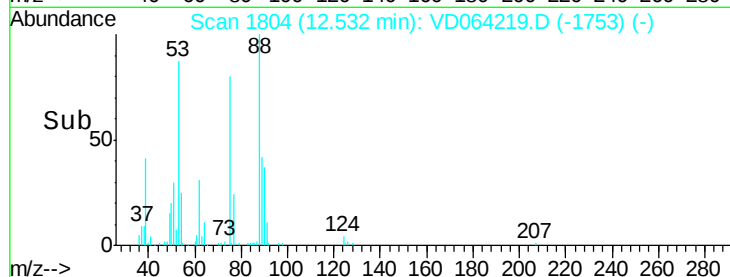
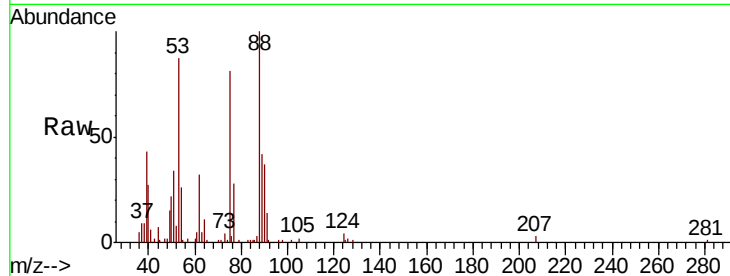
#81
trans-1,4-Dichloro-2-butene
Concen: 19.085 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	106.3	79.4	119.0
89	51.9	36.6	55.0

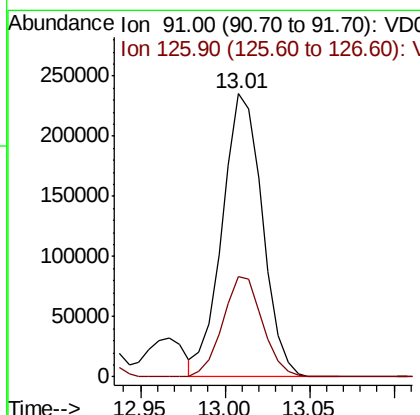
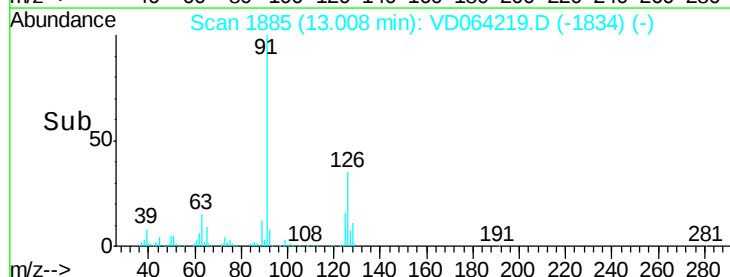
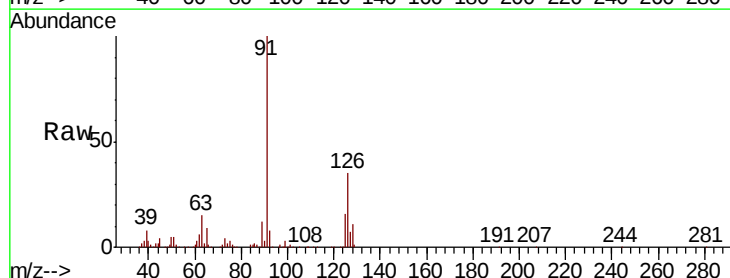
Manual Integrations
APPROVED

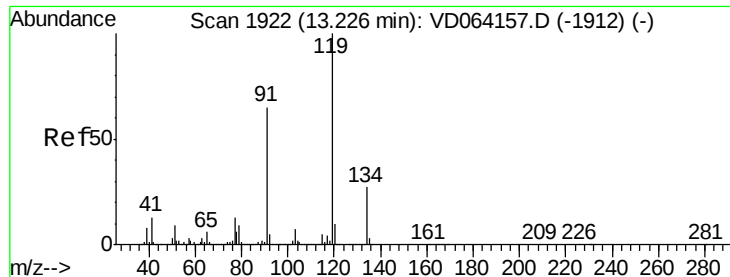
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#82
4-Chlorotoluene
Concen: 21.166 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.8	53.4





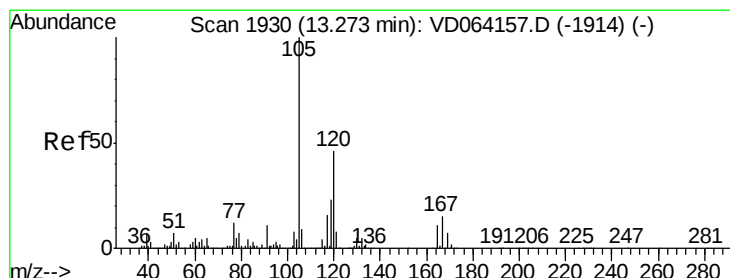
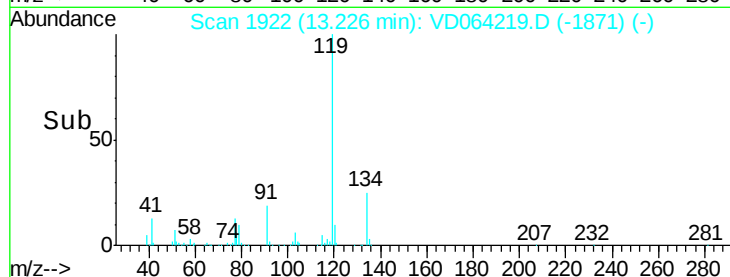
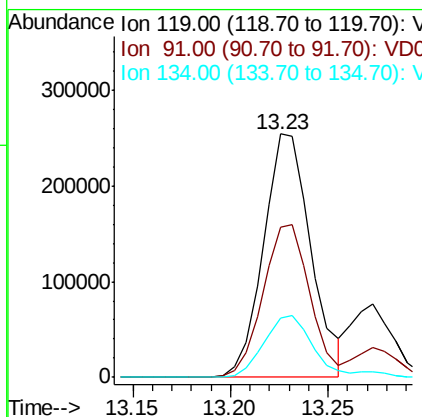
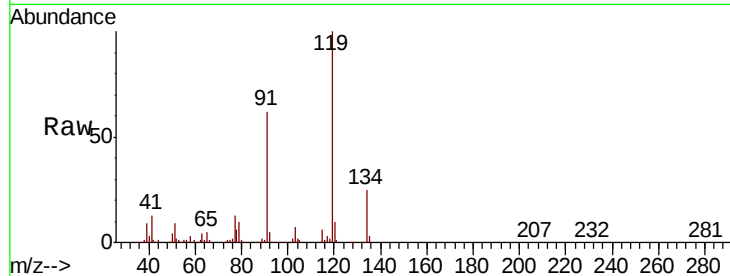
#83
tert-Butylbenzene
Concen: 21.691 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.9	31.8	95.4
134	27.4	13.7	41.0

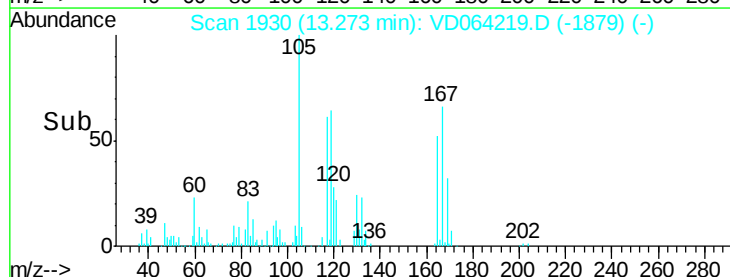
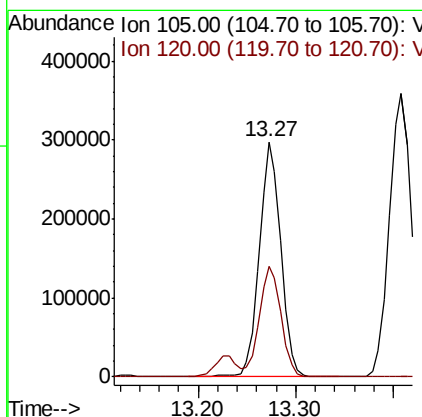
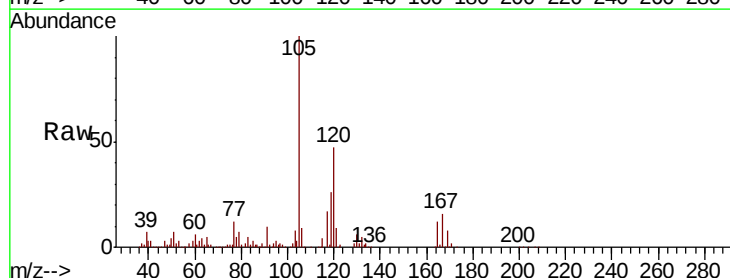
Manual Integrations
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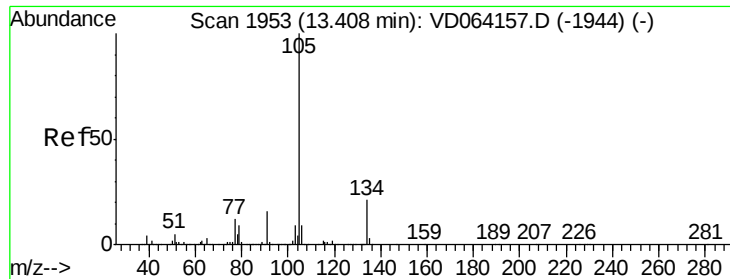
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#84
1,2,4-Trimethylbenzene
Concen: 20.976 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.3	69.8





#85

sec-Butylbenzene

Concen: 21.391 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion:105 Resp: 566960

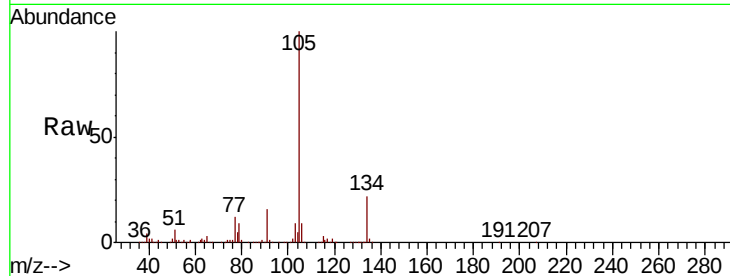
Ion Ratio Lower Upper

105 100

134 21.5 10.7 31.9

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.41

400000

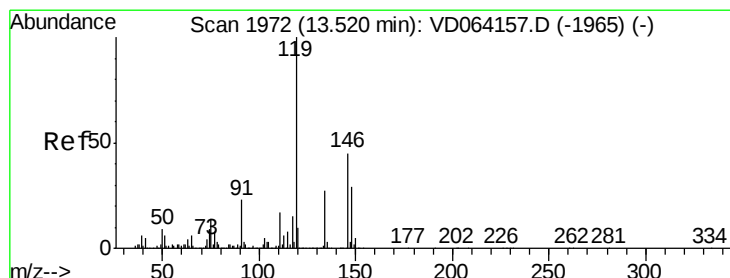
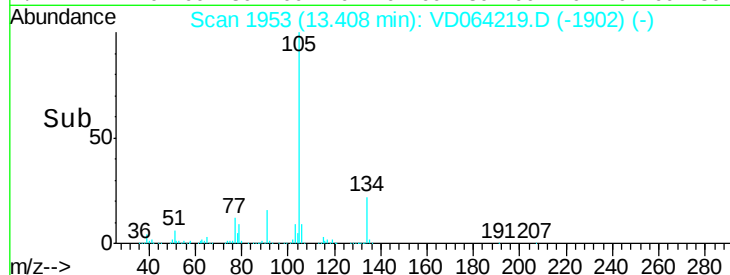
300000

200000

100000

0

Time--> 13.30 13.40



#86

p-Isopropyltoluene

Concen: 21.290 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

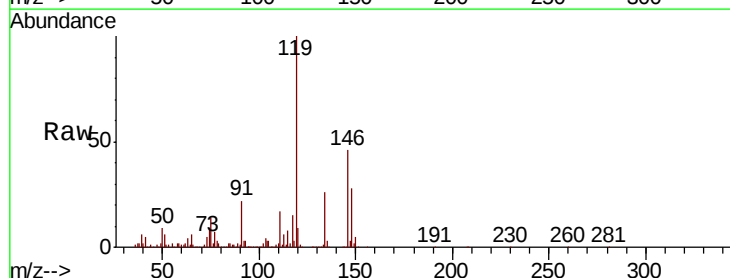
Tgt Ion:119 Resp: 536452

Ion Ratio Lower Upper

119 100

134 26.2 13.5 40.5

91 22.4 11.5 34.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.52

400000

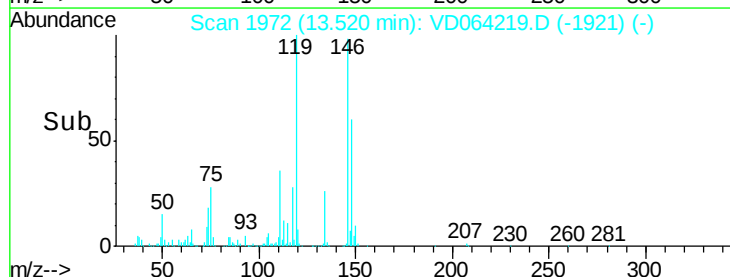
300000

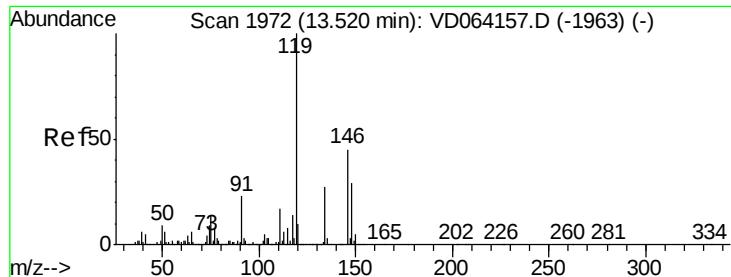
200000

100000

0

Time--> 13.40 13.50 13.60





#87

1,3-Dichlorobenzene

Concen: 21.218 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Instrument :

MSVOA_D

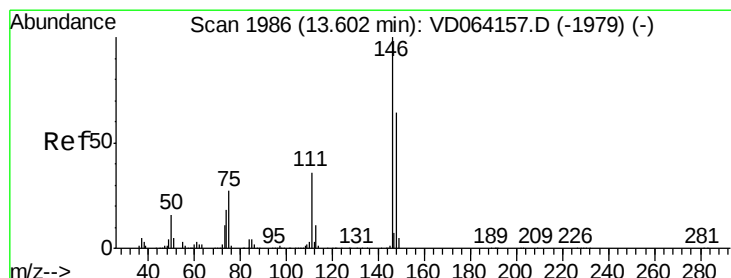
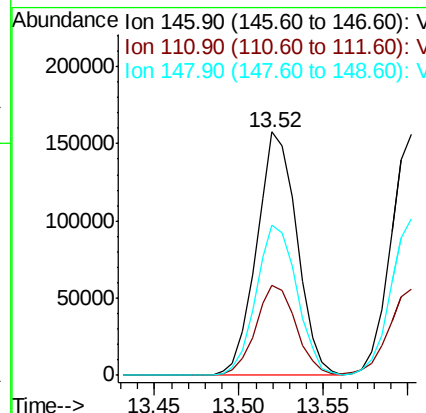
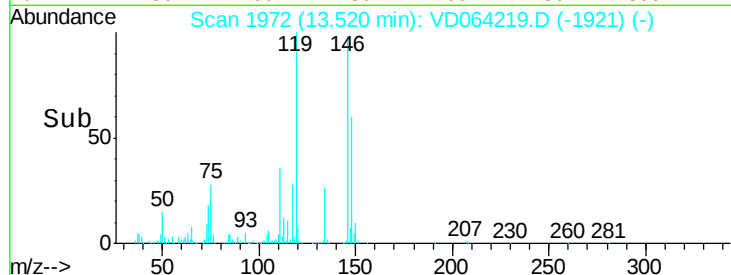
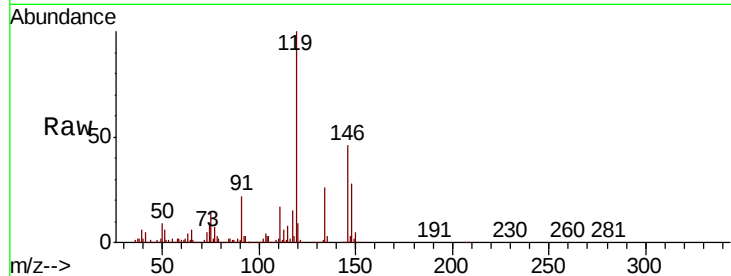
ClientSampleId :

VD1115SBS01

Tot Ion:	146	Resp:	260609
Ion Ratio	Lower	Upper	
146	100		
111	37.3	18.9	56.9
148	62.5	32.1	96.5

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 21.384 ug/l

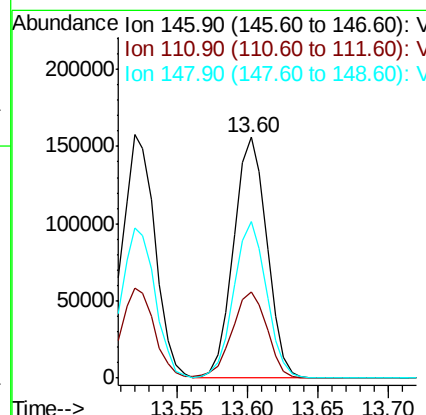
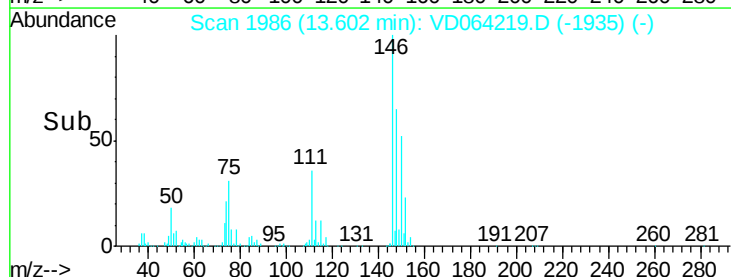
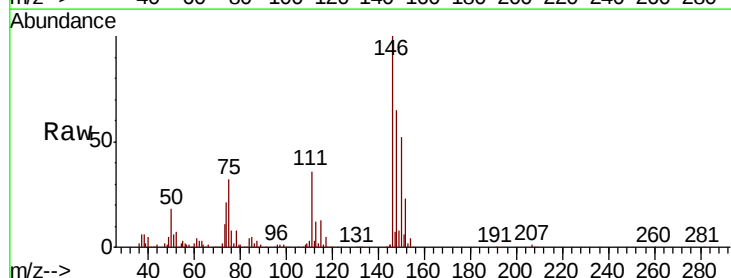
RT: 13.60 min Scan# 1986

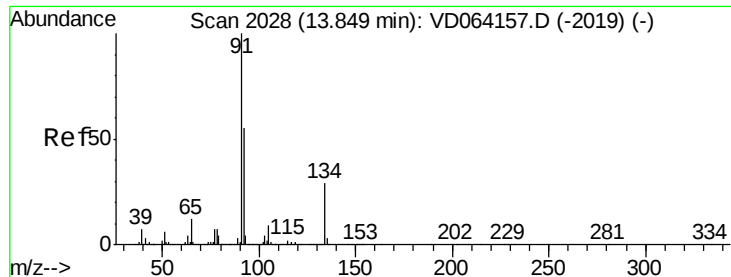
Delta R.T. -0.00 min

Lab File: VD064219.D

Acq: 15 Nov 2019 11:17

Tgt Ion:	146	Resp:	256339
Ion Ratio	Lower	Upper	
146	100		
111	37.6	18.1	54.4
148	64.1	31.9	95.7





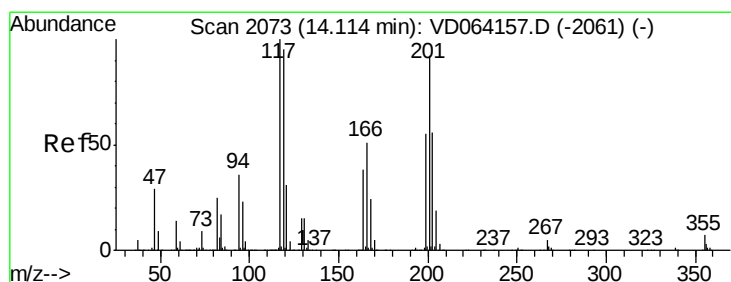
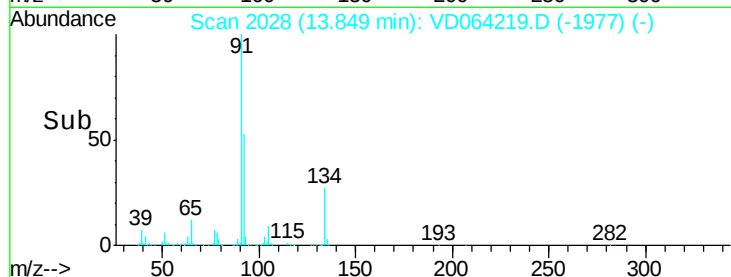
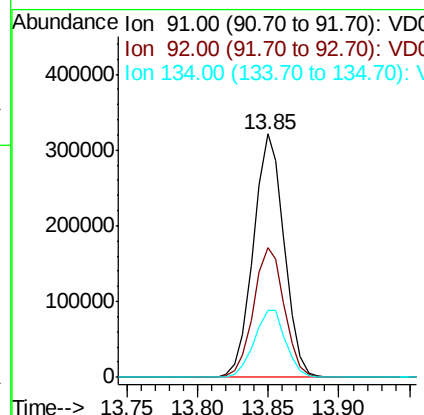
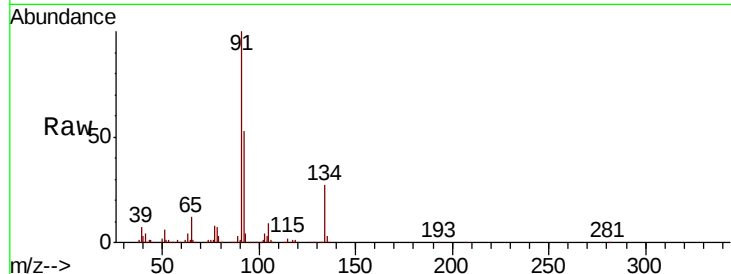
#89
n-Butylbenzene
Concen: 21.569 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	490999		
92	53.4	27.3	81.8	
134	28.2	14.1	42.4	

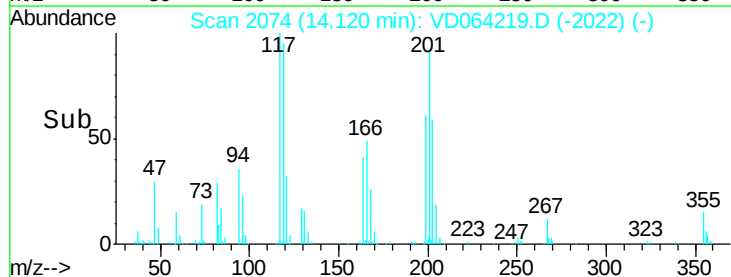
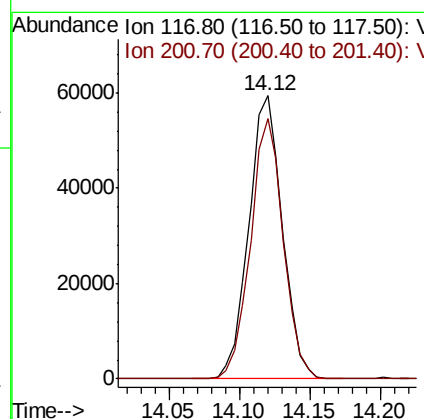
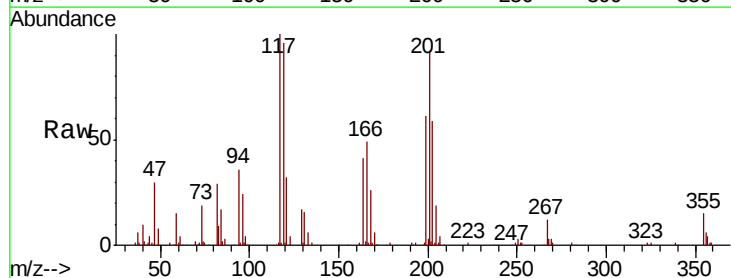
Manual Integrations
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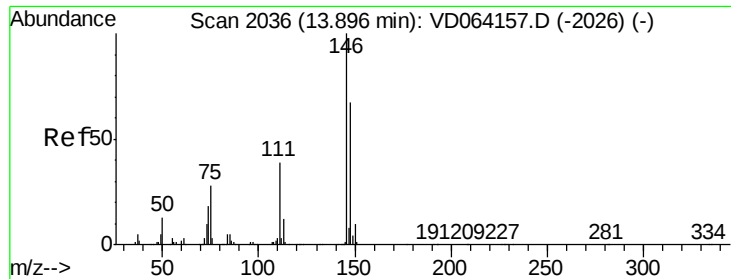
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11/19/2019 12:23:12 PM



#90
Hexachloroethane
Concen: 21.335 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	99350		
201	89.4	45.8	137.4	





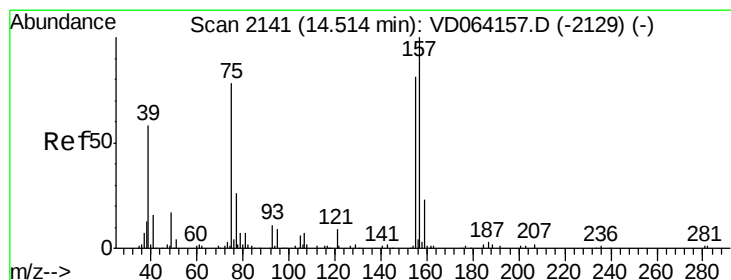
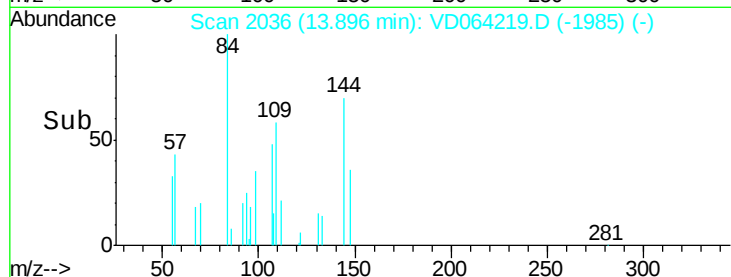
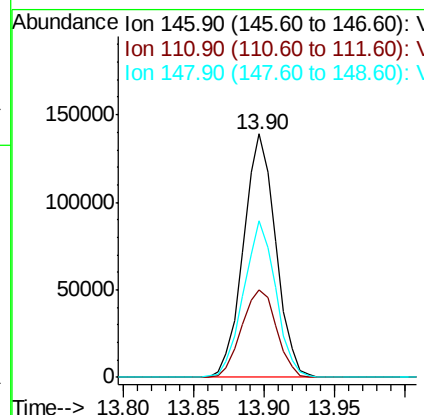
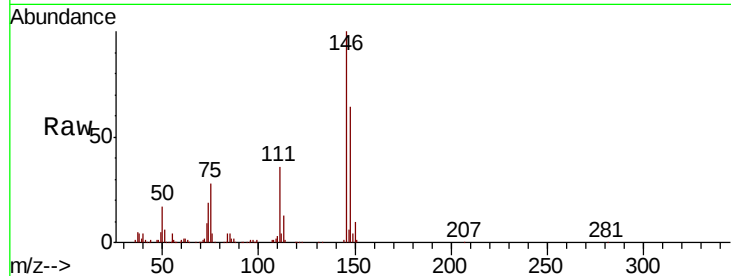
#91
1,2-Dichlorobenzene
Concen: 21.477 ug/l
RT: 13.90 min Scan# 2036
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.7	59.0
148	64.0	32.3	96.8

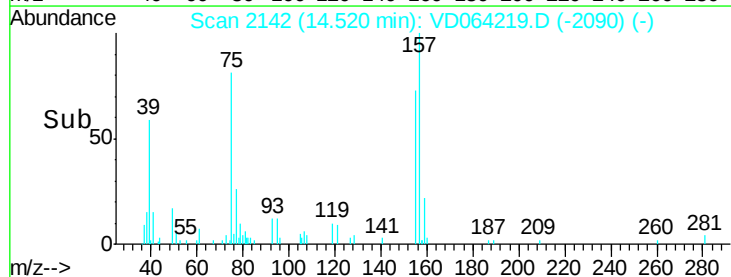
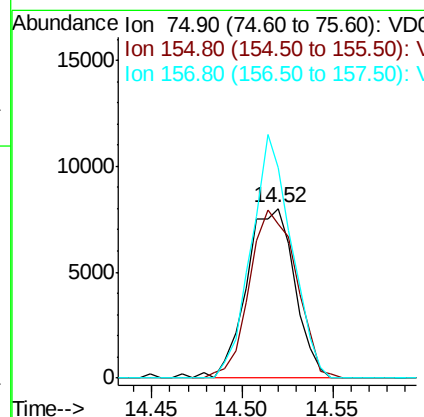
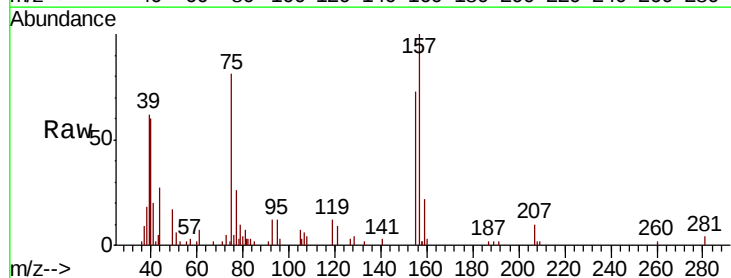
Manual Integrations
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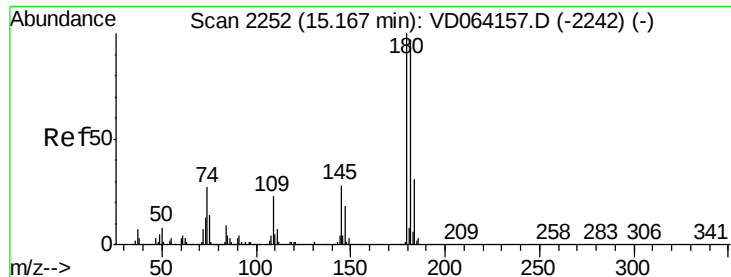
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#92
1,2-Dibromo-3-Chloropropane
Concen: 20.053 ug/l
RT: 14.52 min Scan# 2142
Delta R.T. 0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.3	48.0	144.0
157	120.7	61.5	184.4





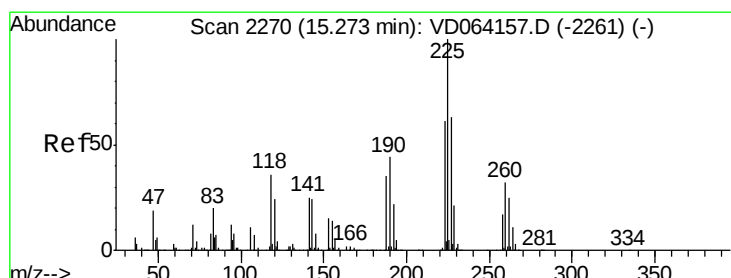
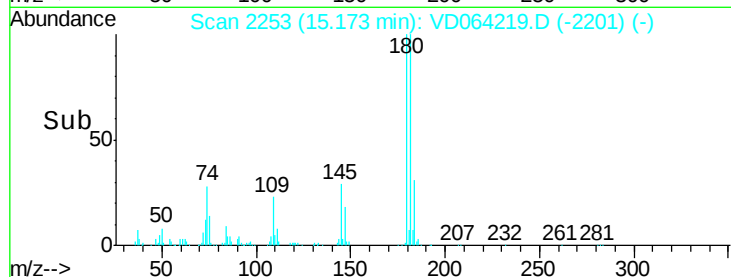
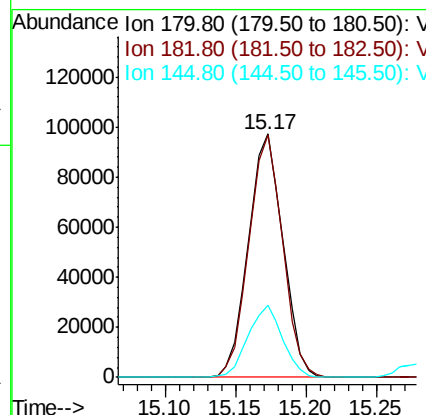
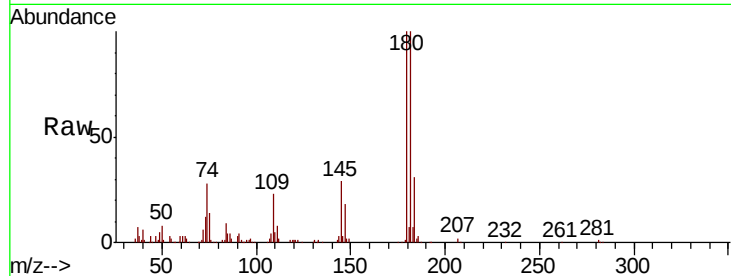
#93
1,2,4-Trichlorobenzene
Concen: 20.860 ug/l
RT: 15.17 min Scan# 2253
Delta R.T. 0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	47.5	142.5
145	29.3	14.2	42.6

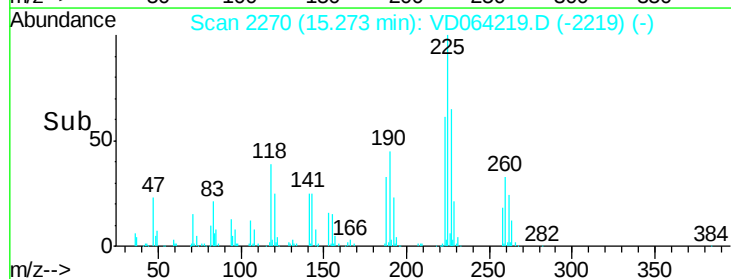
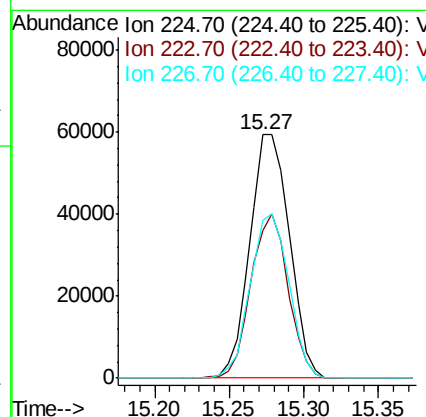
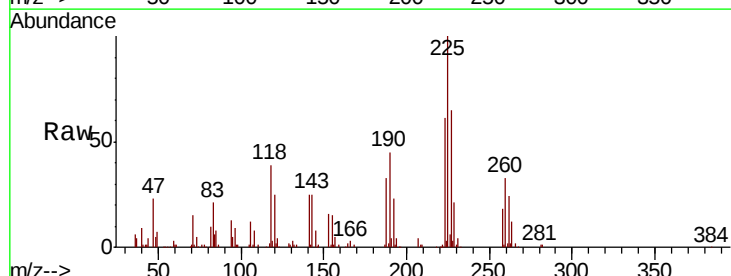
Manual Integrations
APPROVED

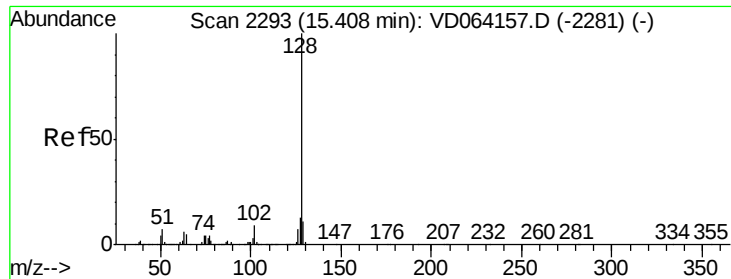
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11/19/2019 12:23:12 PM



#94
Hexachlorobutadiene
Concen: 21.082 ug/l
RT: 15.27 min Scan# 2270
Delta R.T. -0.00 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	31.1	93.3
227	65.8	31.5	94.5





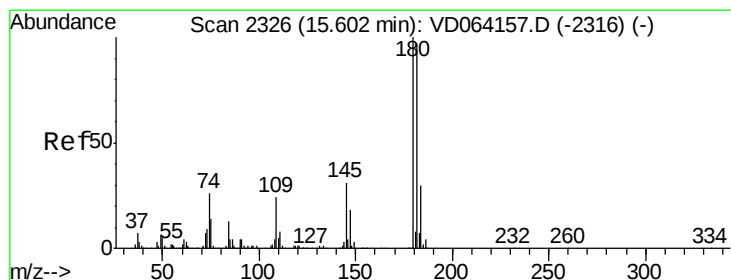
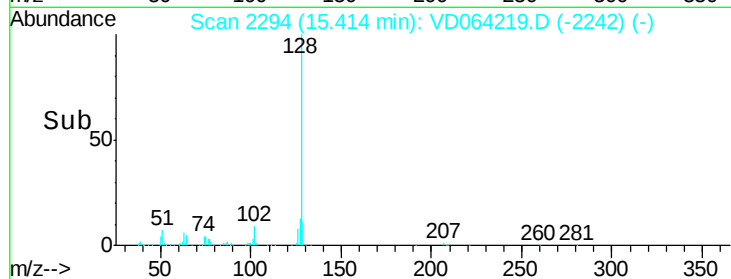
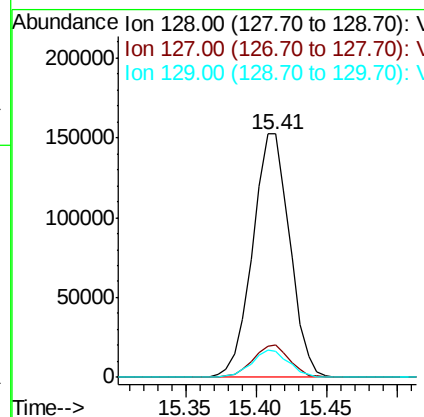
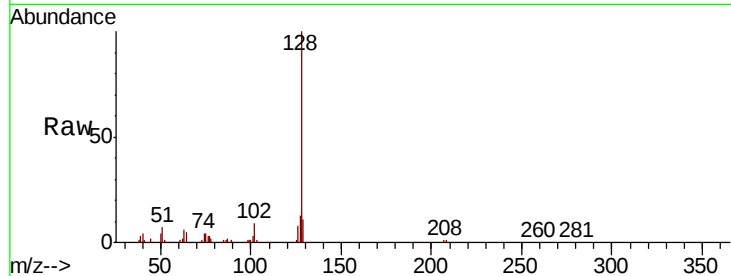
#95
Naphthalene
Concen: 21.492 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.9	8.6	13.0

Manual Integrations
APPROVED

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11/19/2019 12:23:12 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.209 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.01 min
Lab File: VD064219.D
Acq: 15 Nov 2019 11:17

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.3	144.9
145	30.4	15.3	45.8

