

Data File : VF062455.D
Acq On : 11 May 2019 12:56
Operator : FY/SY
Sample : VF0511SBSD01
Misc : 5.00g/5mL/MSVOA_F/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:32:35 PM

Quant Time: May 12 04:08:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	300759	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	424242	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	365290	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	227143	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	140680	49.50	ug/l	0.02
Spiked Amount	50.000		Recovery	=	99.00%	
35) Dibromofluoromethane	4.32	113	174640	51.67	ug/l	0.02
Spiked Amount	50.000		Recovery	=	103.34%	
50) Toluene-d8	7.72	98	397726	48.61	ug/l	0.01
Spiked Amount	50.000		Recovery	=	97.22%	
62) 4-Bromofluorobenzene	11.50	95	191582	51.90	ug/l	0.01
Spiked Amount	50.000		Recovery	=	103.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	87767	25.215	ug/l	96
3) Chloromethane	1.15	50	50975	22.205	ug/l	96
4) Vinyl Chloride	1.20	62	52744	23.034	ug/l	97
5) Bromomethane	1.40	94	42389	23.187	ug/l	86
6) Chloroethane	1.45	64	28433	24.698	ug/l	94
7) Trichlorofluoromethane	1.56	101	120096	25.278	ug/l	96
8) Diethyl Ether	1.72	74	14398	20.029	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.92	101	68976	25.430	ug/l	96
10) Methyl Iodide	1.99	142	120309	26.915	ug/l #	97
11) Tert butyl alcohol	2.70	59	15769	98.164	ug/l #	88
12) 1,1-Dichloroethene	1.88	96	54677	23.712	ug/l	97
13) Acrolein	2.11	56	8882	74.642	ug/l #	74
14) Allyl chloride	2.21	41	80505	39.523	ug/l	96
15) Acrylonitrile	3.09	53	36633	120.388	ug/l	93
16) Acetone	2.35	43	61989	107.811	ug/l #	92
17) Carbon Disulfide	1.92	76	119505	23.769	ug/l	97
18) Methyl Acetate	2.47	43	20904	17.927	ug/l	95
19) Methyl tert-butyl Ether	2.56	73	107838	22.655	ug/l	99
20) Methylene Chloride	2.34	84	55777m	26.812	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	48981	22.295	ug/l	96
22) Diisopropyl ether	2.94	45	143449	22.533	ug/l	96
23) Vinyl Acetate	3.35	43	320304	112.888	ug/l	99
24) 1,1-Dichloroethane	3.02	63	97620	25.372	ug/l	98
25) 2-Butanone	4.53	43	79681	110.307	ug/l	92
26) 2,2-Dichloropropane	3.78	77	64690	30.107	ug/l	97
27) cis-1,2-Dichloroethene	3.65	96	65794	23.958	ug/l	95
28) Bromochloromethane	3.91	49	35984	20.622	ug/l	99
29) Tetrahydrofuran	4.29	42	30819	92.830	ug/l	98
30) Chloroform	4.06	83	129000	24.817	ug/l	99
31) Cyclohexane	3.89	56	70186	22.854	ug/l	90
32) 1,1,1-Trichloroethane	4.31	97	114190	25.631	ug/l	98
36) 1,1-Dichloropropene	4.48	75	82074	22.521	ug/l	99
37) Ethyl Acetate	4.32	43	31548	18.959	ug/l #	99
38) Carbon Tetrachloride	4.20	117	96079m	23.970	ug/l	

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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	80463	22.015	ug/l	98
40) Benzene	4.84	78	173356	21.601	ug/l	95
41) Methacrylonitrile	4.94	41	14528	16.625	ug/l #	91
42) 1,2-Dichloroethane	5.14	62	70878	21.117	ug/l	98
43) Isopropyl Acetate	7.12	43	32090	19.359	ug/l #	96
44) Trichloroethene	5.70	130	68139	23.113	ug/l	96
45) 1,2-Dichloropropane	6.42	63	41964	23.086	ug/l #	86
46) Dibromomethane	6.28	93	29716	19.717	ug/l	93
47) Bromodichloromethane	6.56	83	81367	21.594	ug/l	97
48) Methyl methacrylate	6.89	41	22232	18.978	ug/l	91
49) 1,4-Dioxane	6.88	88	3410	273.540	ug/l #	80
51) 4-Methyl-2-Pentanone	8.41	43	122282	97.352	ug/l	97
52) Toluene	7.78	92	105191	21.247	ug/l	100
53) t-1,3-Dichloropropene	8.44	75	56899	19.965	ug/l	99
54) cis-1,3-Dichloropropene	7.47	75	72984	22.005	ug/l	99
55) 1,1,2-Trichloroethane	8.64	97	34331	21.844	ug/l	91
56) Ethyl methacrylate	8.76	69	30831	18.584	ug/l	96
57) 1,3-Dichloropropane	9.01	76	55655	23.444	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.46	63	43731	87.677	ug/l	97
59) 2-Hexanone	9.63	43	89369	102.876	ug/l	96
60) Dibromochloromethane	8.87	129	60440	23.513	ug/l	97
61) 1,2-Dibromoethane	9.14	107	40946	22.167	ug/l	99
64) Tetrachloroethene	8.32	164	64084	21.610	ug/l	95
65) Chlorobenzene	9.94	112	140867	23.307	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.07	131	70485	23.118	ug/l	96
67) Ethyl Benzene	10.03	91	247052	23.343	ug/l	98
68) m/p-Xylenes	10.27	106	182029	46.615	ug/l	98
69) o-Xylene	10.82	106	92859	22.007	ug/l	90
70) Styrene	10.89	104	136678	21.613	ug/l	99
71) Bromoform	10.88	173	31721	18.990	ug/l #	95
73) Isopropylbenzene	11.22	105	302188	22.441	ug/l	100
74) N-amyl acetate	11.45	43	60196	20.822	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.77	83	42897	20.345	ug/l	98
76) 1,2,3-Trichloropropane	11.88	75	30702	19.086	ug/l #	100
77) Bromobenzene	11.58	156	77664	21.976	ug/l	95
78) n-propylbenzene	11.68	91	321741	22.442	ug/l	99
79) 2-Chlorotoluene	11.80	91	197766	22.184	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	257350	21.804	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	10231	16.920	ug/l #	90
82) 4-Chlorotoluene	11.97	91	195119	22.160	ug/l	100
83) tert-Butylbenzene	12.20	119	274101	22.098	ug/l	99
84) 1,2,4-Trimethylbenzene	12.27	105	261282	22.621	ug/l	99
85) sec-Butylbenzene	12.37	105	337552	22.357	ug/l	100
86) p-Isopropyltoluene	12.53	119	314201	22.399	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	140908	21.831	ug/l	99
88) 1,4-Dichlorobenzene	12.62	146	136257	21.873	ug/l	99
89) n-Butylbenzene	12.90	91	299245	23.978	ug/l	99
90) Hexachloroethane	12.98	117	75196	21.469	ug/l	95
91) 1,2-Dichlorobenzene	13.00	146	144855	23.187	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.69	75	8212	17.385	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051119\
Quantitation Report (QT Reviewed)

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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	129765	23.157	ug/l	98
94) Hexachlorobutadiene	14.23	225	96638	23.138	ug/l	95
95) Naphthalene	14.50	128	173286	20.569	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	123442	22.739	ug/l	99

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

Data File : VF062455.D

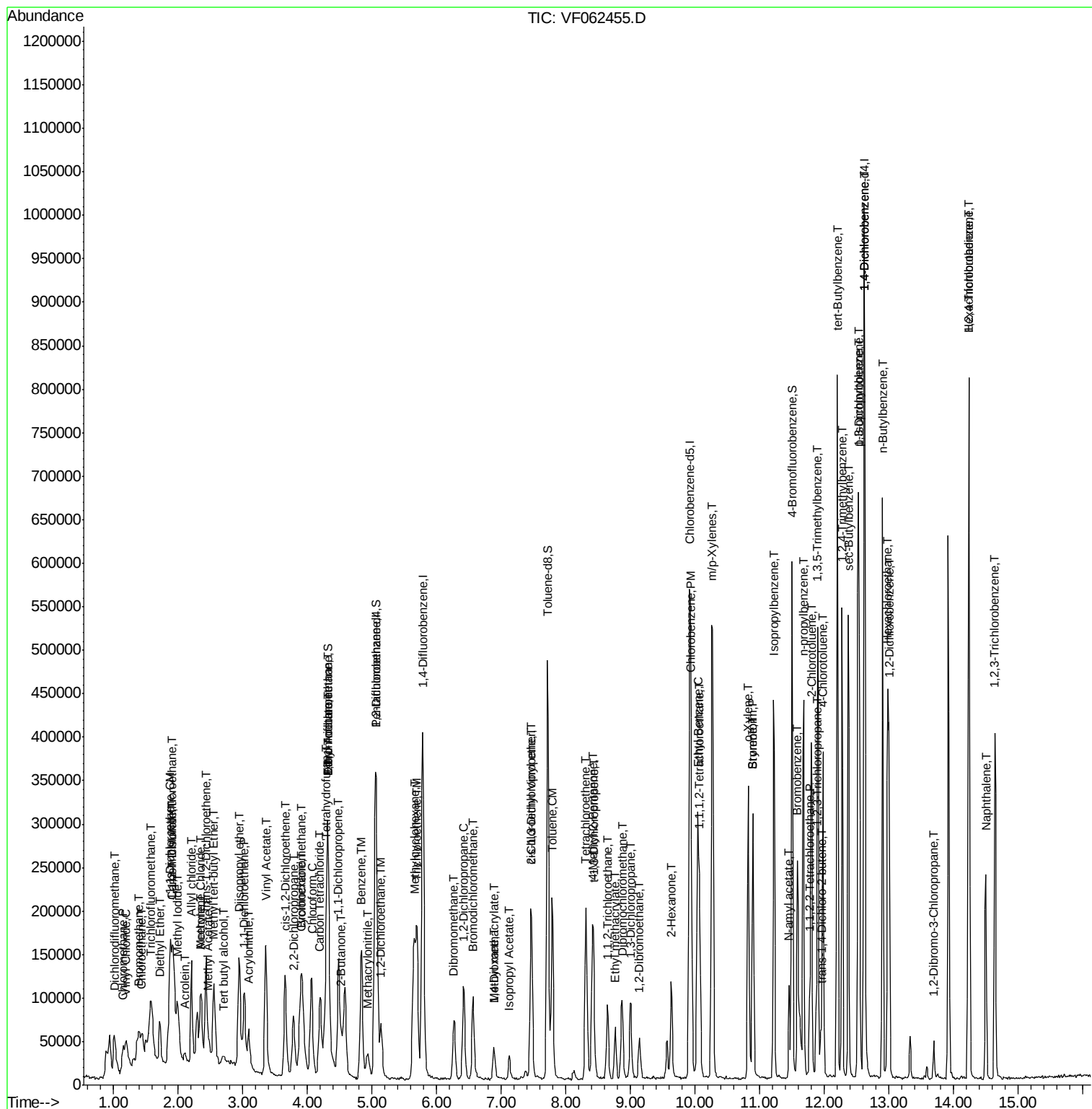
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Acq On       : 11 May 2019   12:56
Operator    : FY/SY
Sample      : VF0511SBD01
Misc       : 5.00g/5mL/MSV0A_F/SOIL
ALS Vial    : 6      Sample Multiplier: 1
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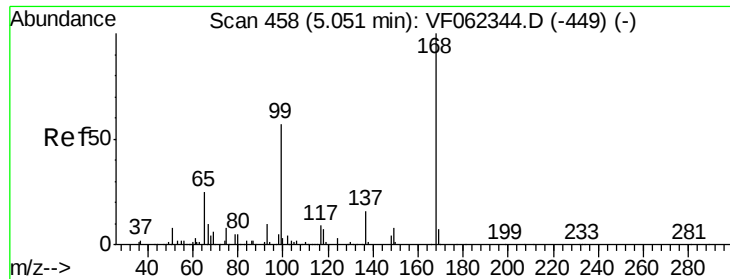
Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Manual Integrations APPROVED

MMDadoda
5/12/2019 12:32:35 PM

Quant Time: May 12 04:08:44 2019
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBSD01

Tgt Ion:168 Resp: 300759

Ion Ratio Lower Upper

168 100

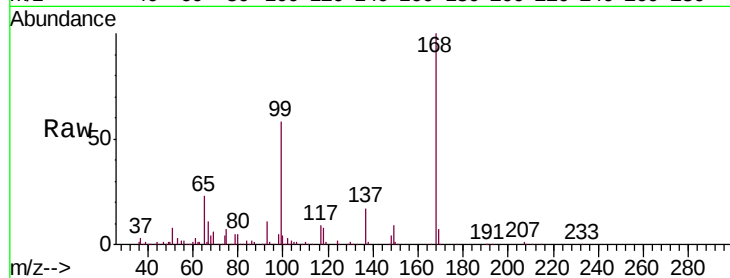
99 57.8 45.9 68.9

Manual Integrations

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5/12/2019 12:32:35 PM



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

100000

80000

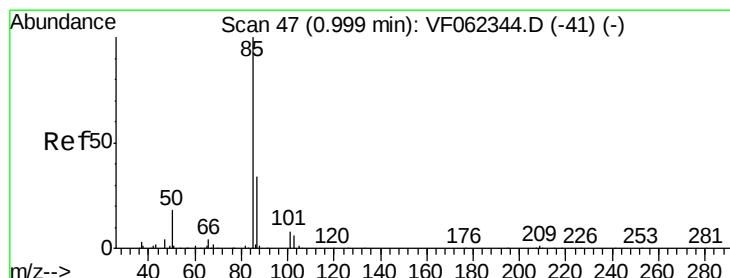
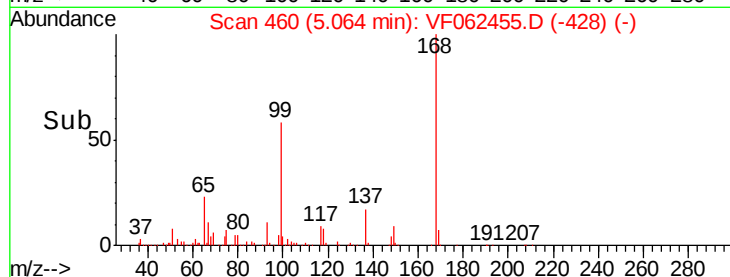
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 25.215 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062455.D

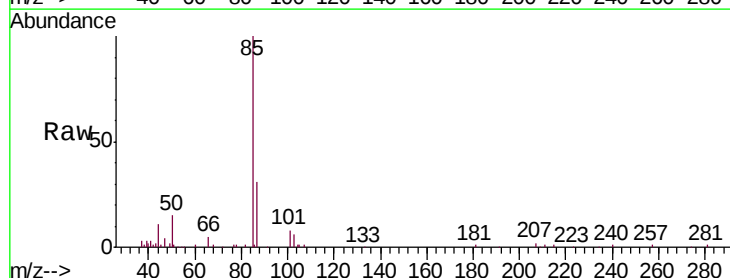
Acq: 11 May 2019 12:56

Tgt Ion: 85 Resp: 87767

Ion Ratio Lower Upper

85 100

87 31.1 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

30000

25000

20000

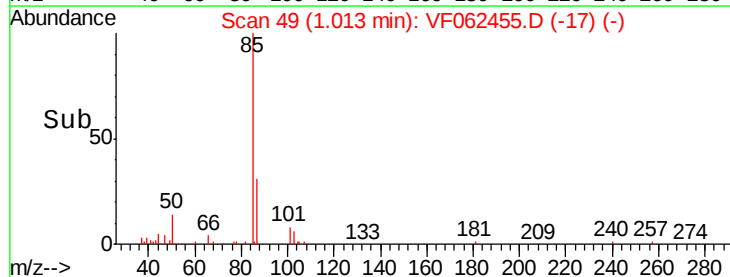
15000

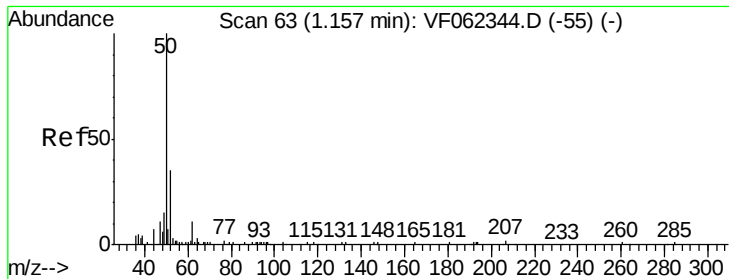
10000

5000

0

Time-->





#3

Chloromethane

Concen: 22.205 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 50 Resp: 50975

Ion Ratio Lower Upper

50 100

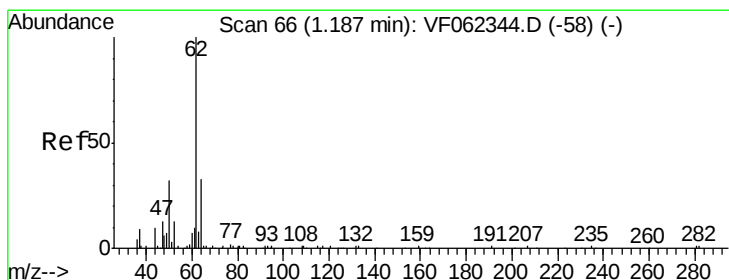
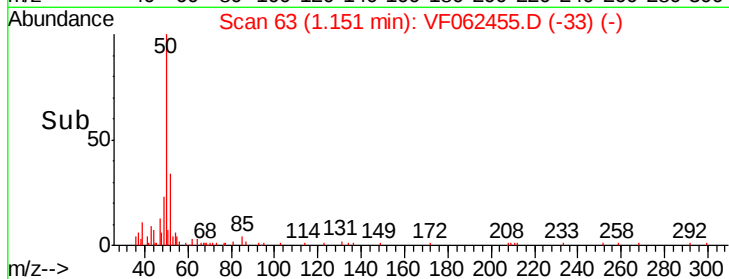
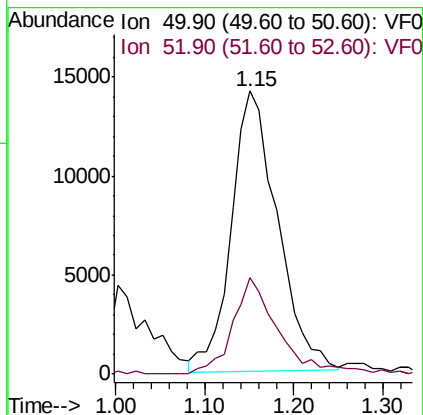
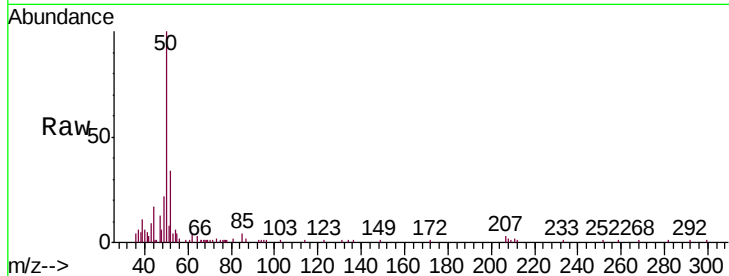
52 34.8 26.1 39.1

Manual Integrations

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5/12/2019 12:32:35 PM



#4

Vinyl Chloride

Concen: 23.034 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.01 min

Lab File: VF062455.D

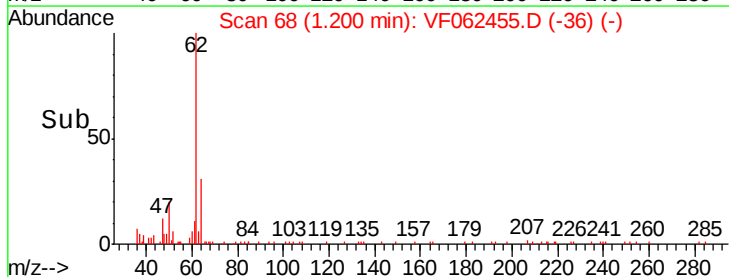
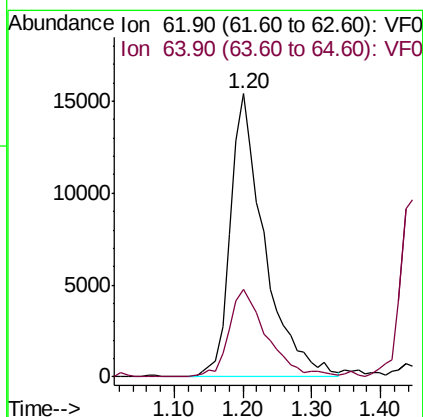
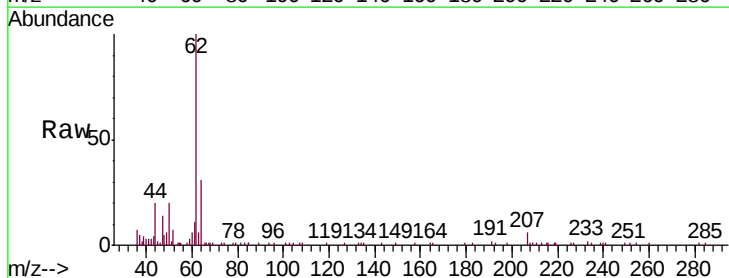
Acq: 11 May 2019 12:56

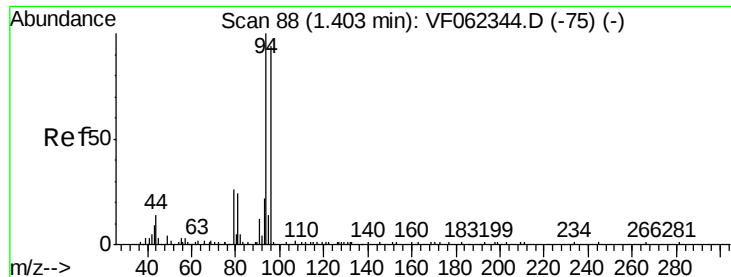
Tgt Ion: 62 Resp: 52744

Ion Ratio Lower Upper

62 100

64 30.9 26.1 39.1





#5

Bromomethane

Concen: 23.187 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBSD01

Tgt Ion: 94 Resp: 42389

Ion Ratio Lower Upper

94 100

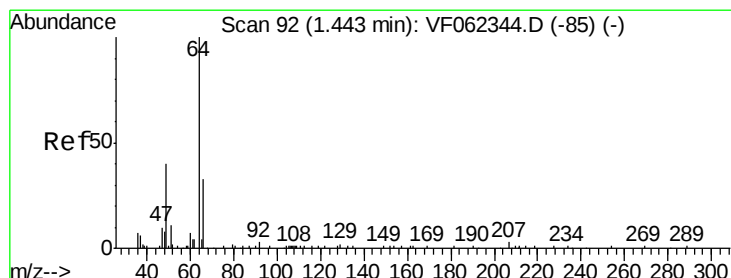
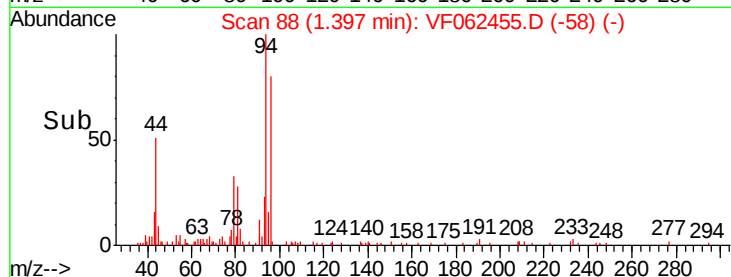
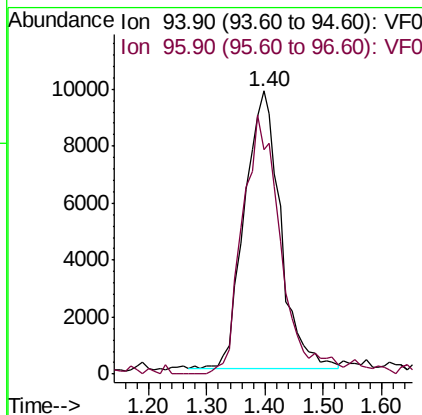
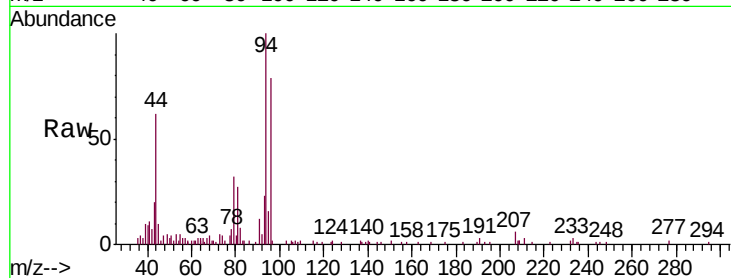
96 80.8 75.4 113.2

Manual Integrations

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#6

Chloroethane

Concen: 24.698 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062455.D

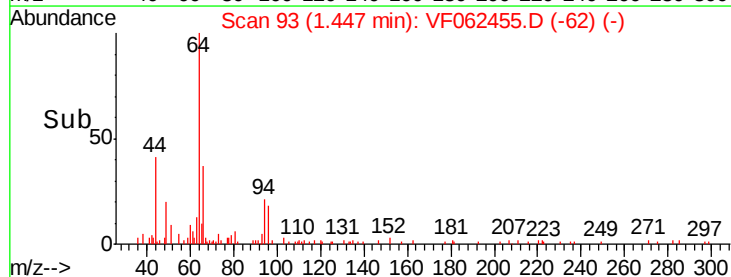
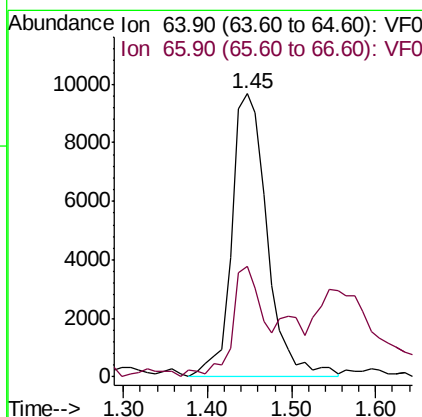
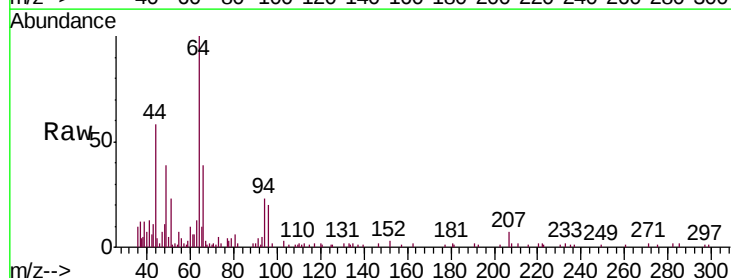
Acq: 11 May 2019 12:56

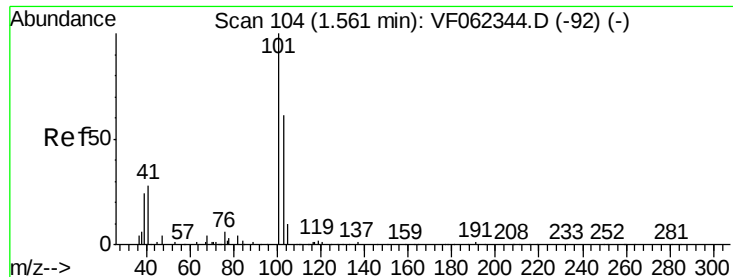
Tgt Ion: 64 Resp: 28433

Ion Ratio Lower Upper

64 100

66 36.4 26.6 39.8





#7

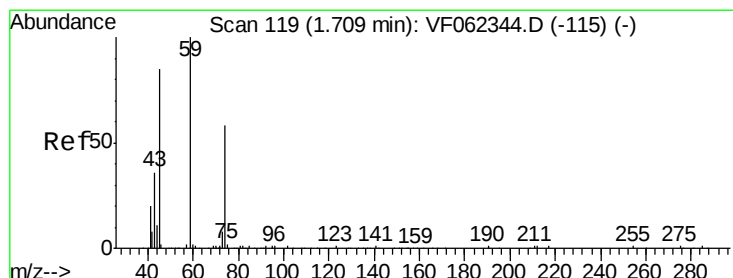
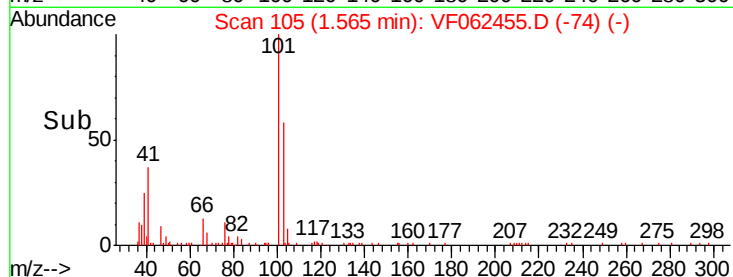
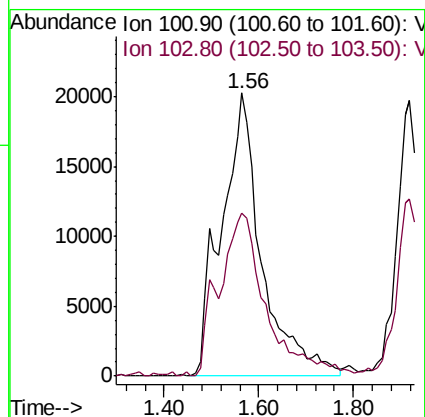
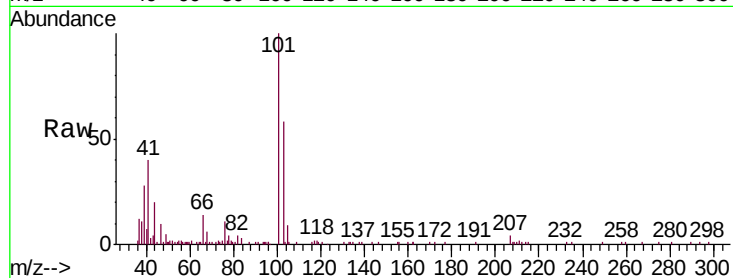
Trichlorofluoromethane
Concen: 25.278 ug/l
RT: 1.56 min Scan# 105
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion:101 Resp: 120096
Ion Ratio Lower Upper
101 100
103 57.7 48.5 72.7

Manual Integrations
APPROVED

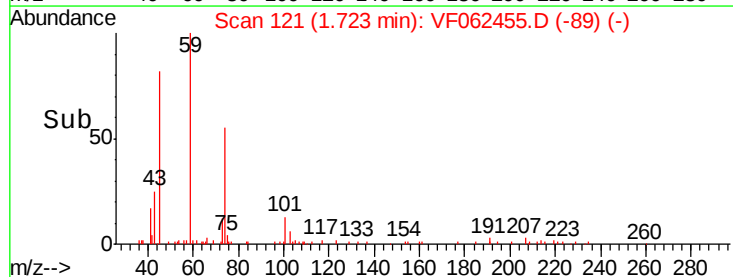
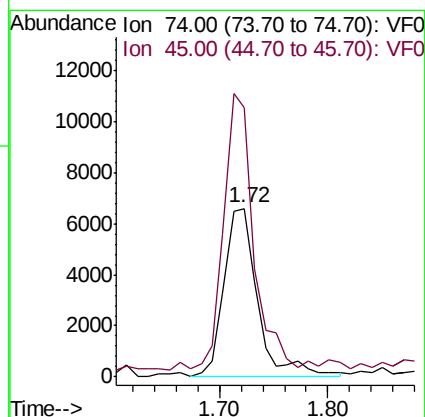
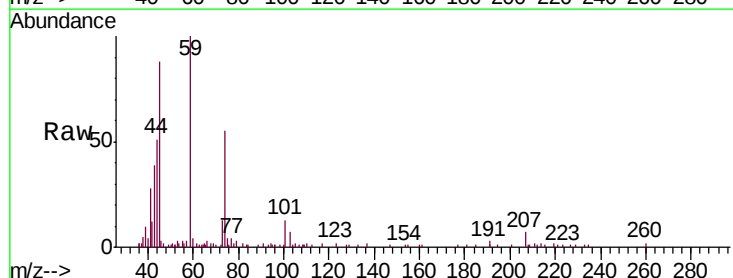
MMDadoda
5/12/2019 12:32:35 PM



#8

Diethyl Ether
Concen: 20.029 ug/l
RT: 1.72 min Scan# 121
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion: 74 Resp: 14398
Ion Ratio Lower Upper
74 100
45 143.8 73.9 221.6





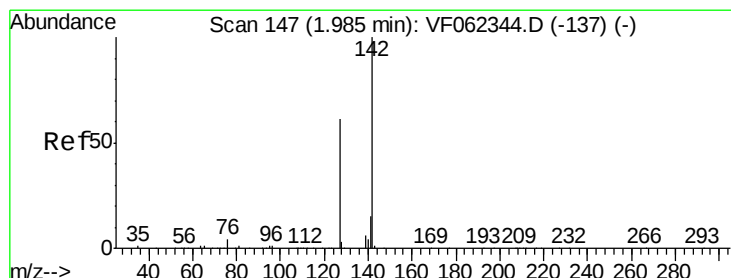
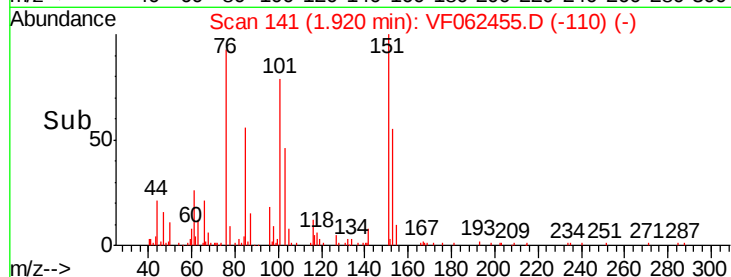
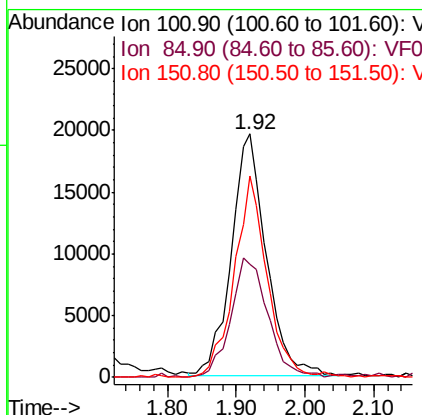
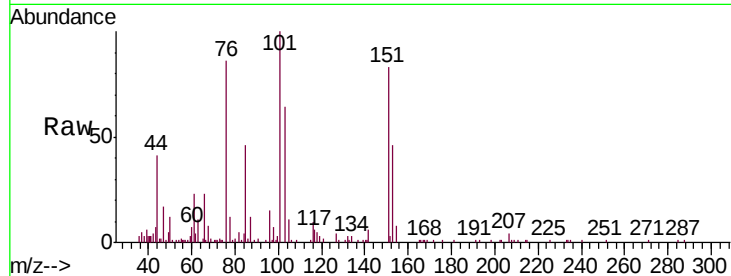
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 25.430 ug/l
 RT: 1.92 min Scan# 141
 Delta R.T. 0.00 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	68976		
85	52.2	39.5	59.3	
151	77.8	59.9	89.9	

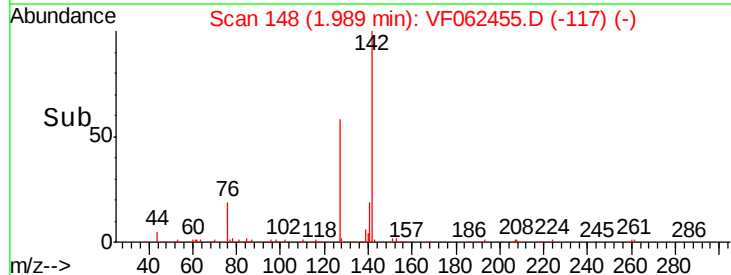
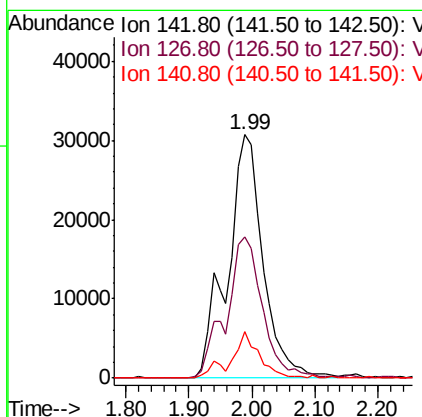
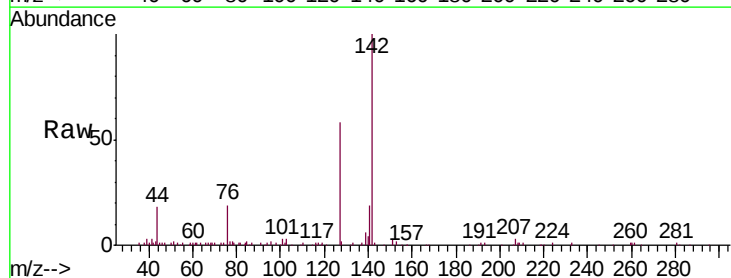
Manual Integrations
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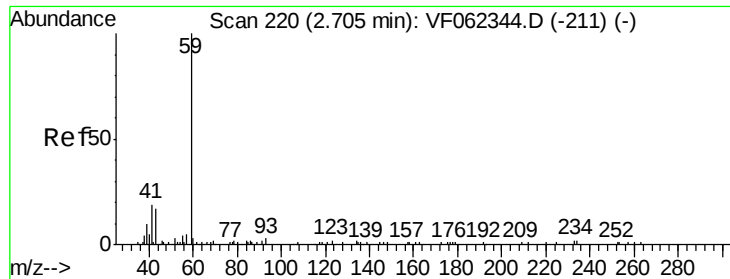
MMDadoda
 5/12/2019 12:32:35 PM



#10
 Methyl Iodide
 Concen: 26.915 ug/l
 RT: 1.99 min Scan# 148
 Delta R.T. 0.00 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	120309		
127	59.6	48.4	72.6	
141	11.6	12.2	18.4	





#11

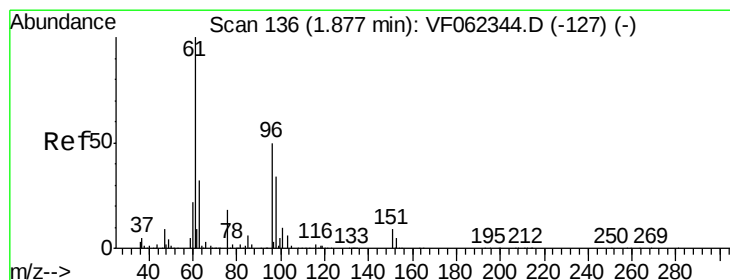
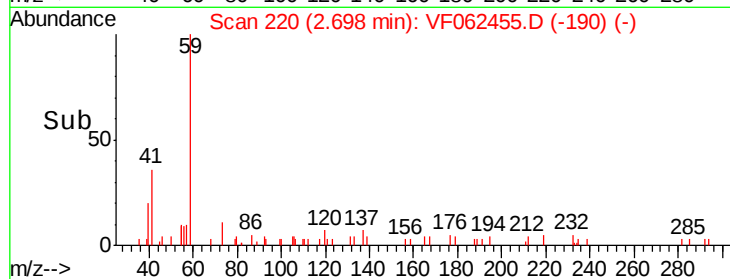
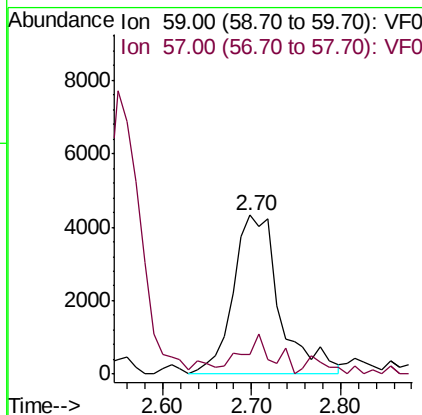
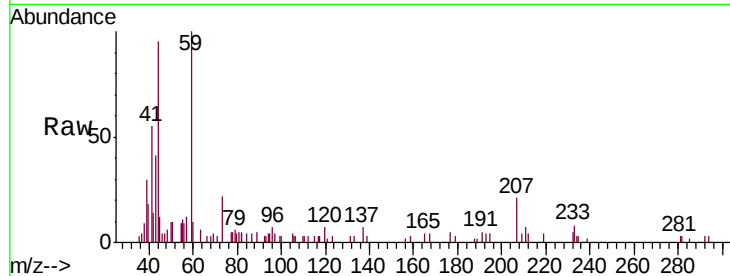
Tert butyl alcohol
 Concen: 98.164 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
59	100		
57	16.3	9.3	13.9#

Manual Integrations
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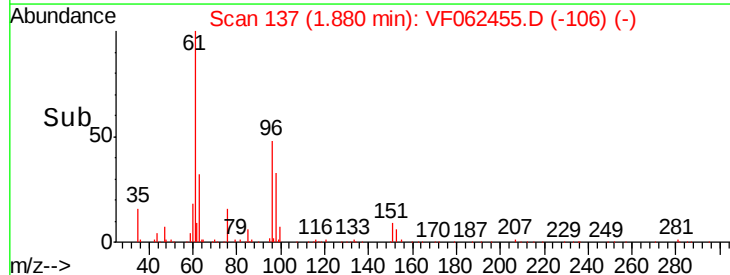
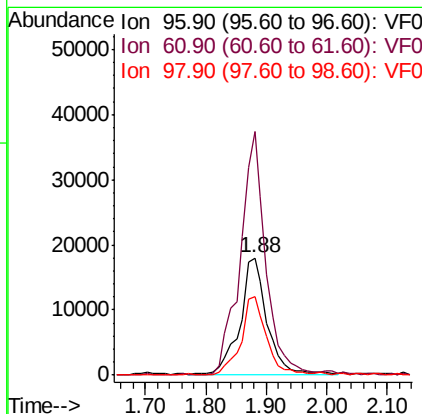
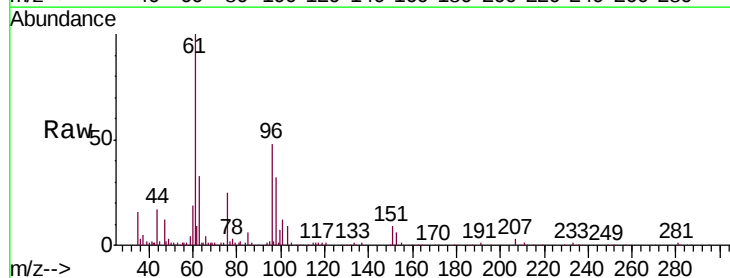
MMDadoda
 5/12/2019 12:32:35 PM

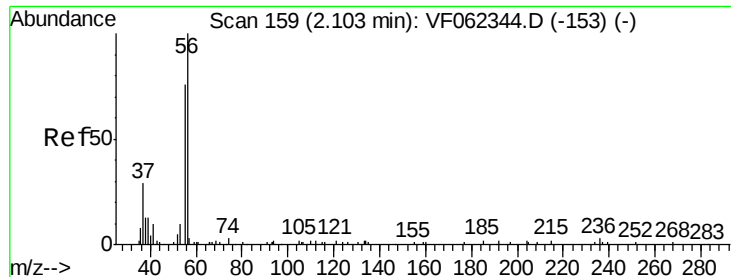


#12

1,1-Dichloroethene
 Concen: 23.712 ug/l
 RT: 1.88 min Scan# 137
 Delta R.T. 0.00 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	209.4	163.2	244.8
98	67.0	55.2	82.8





#13

Acrolein

Concen: 74.642 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

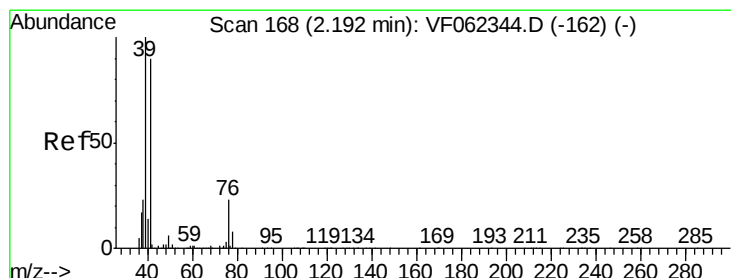
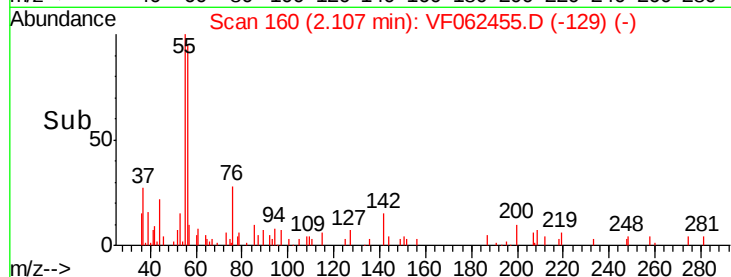
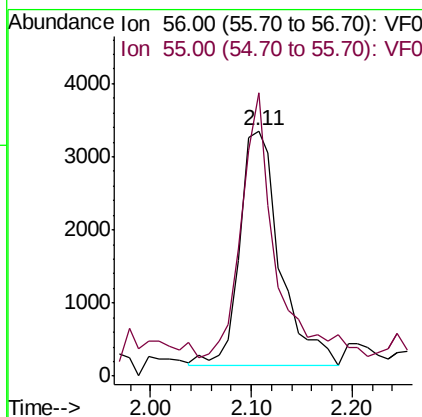
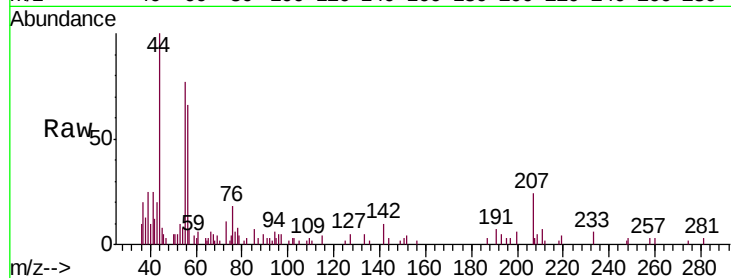
ClientSampleId :

VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
55	94.9	58.4	87.6#

Manual Integrations
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#14

Allyl chloride

Concen: 39.523 ug/l

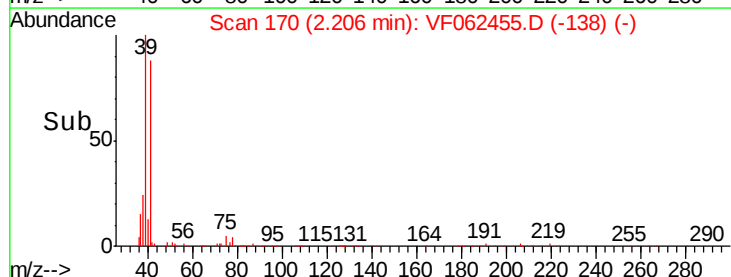
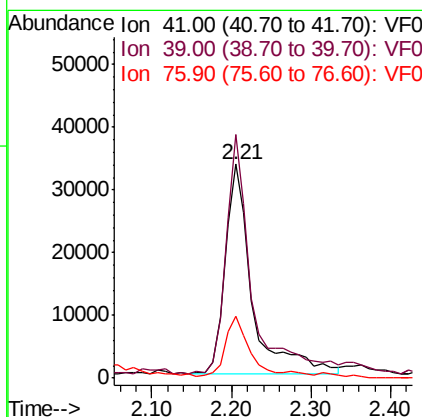
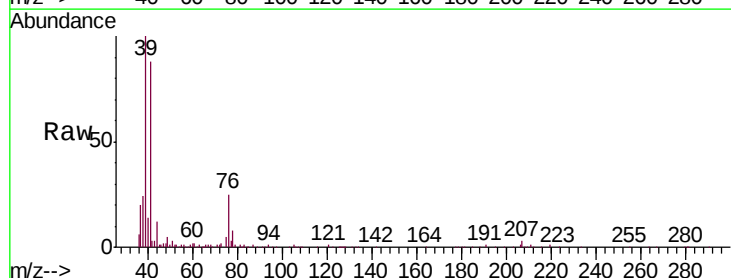
RT: 2.21 min Scan# 170

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
41	100		
39	109.8	90.8	136.2
76	24.0	22.2	33.4





#15

Acrylonitrile

Concen: 120.388 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

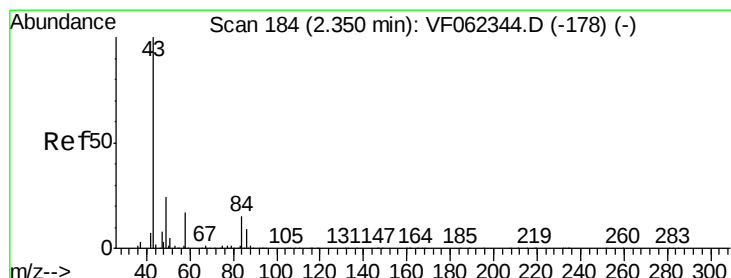
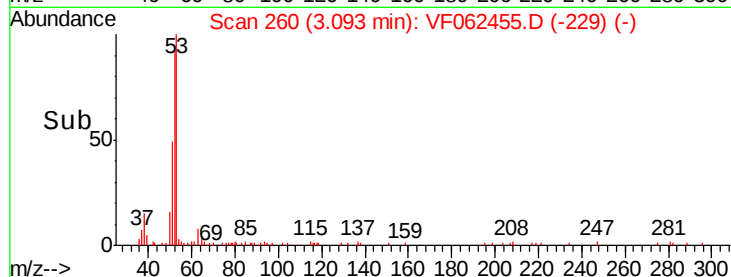
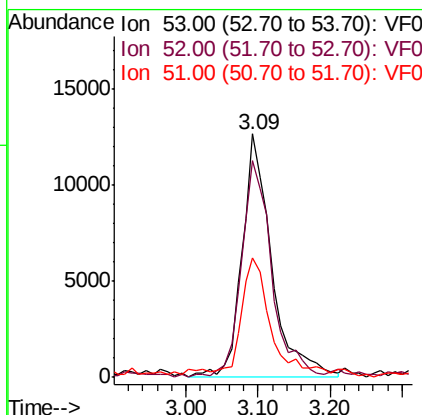
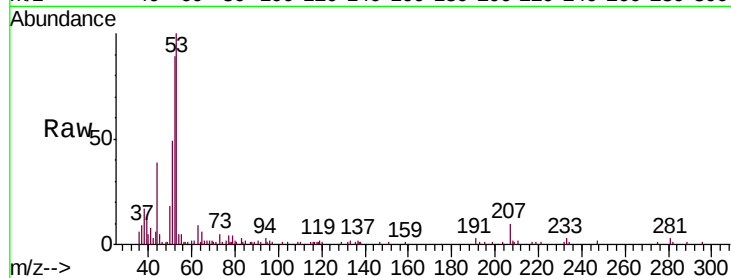
ClientSampleId :

VF0511SBS01

Tgt Ion:	53	Resp:	36633
Ion Ratio	Lower	Upper	
53	100		
52	91.2	77.2	115.8
51	43.8	40.6	61.0

Manual Integrations
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#16

Acetone

Concen: 107.811 ug/l

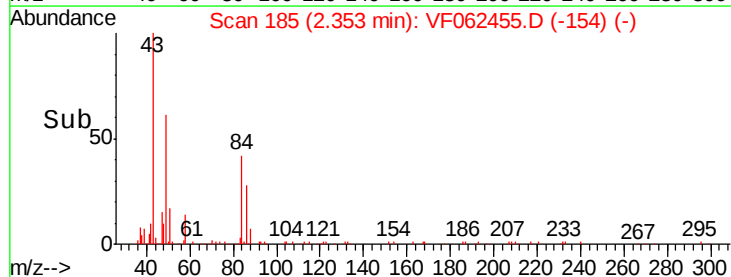
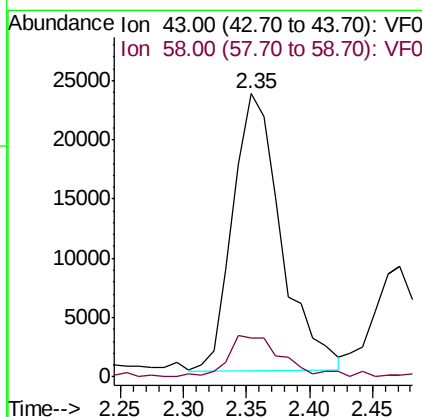
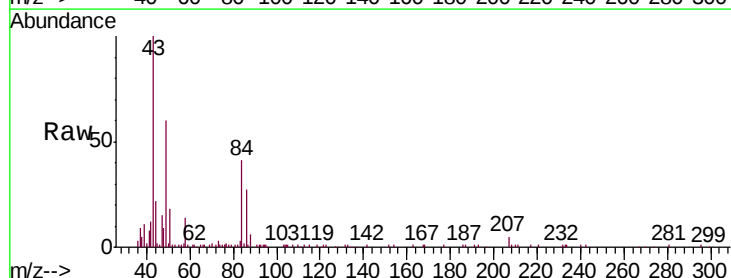
RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion:	43	Resp:	61989
Ion Ratio	Lower	Upper	
43	100		
58	13.1	13.1	19.7#





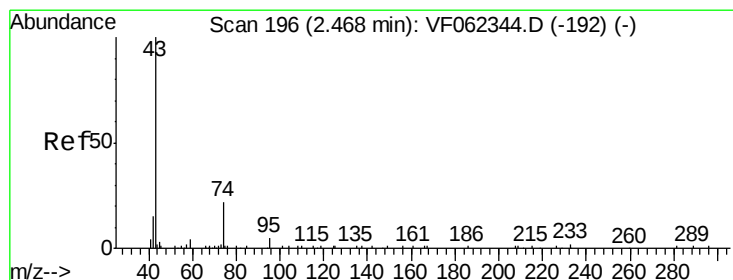
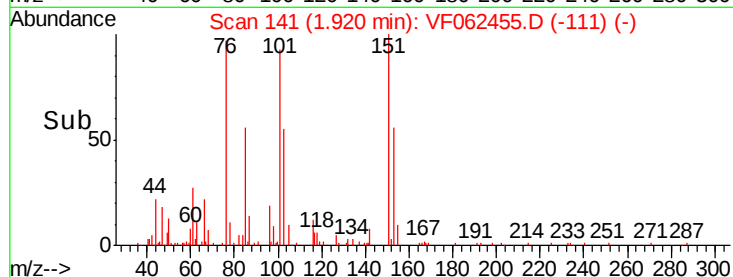
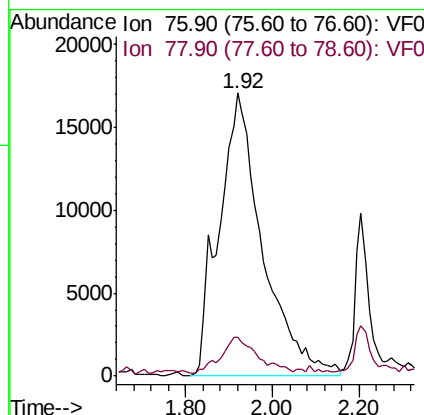
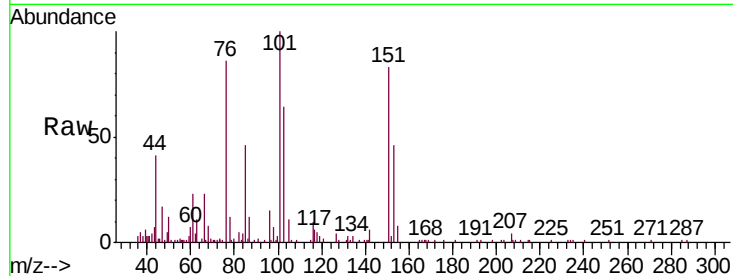
#17
Carbon Disulfide
Concen: 23.769 ug/l
RT: 1.92 min Scan# 141
Delta R.T. -0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Tgt Ion	Ratio	Lower	Upper
76	100		
78	12.5	9.0	13.4

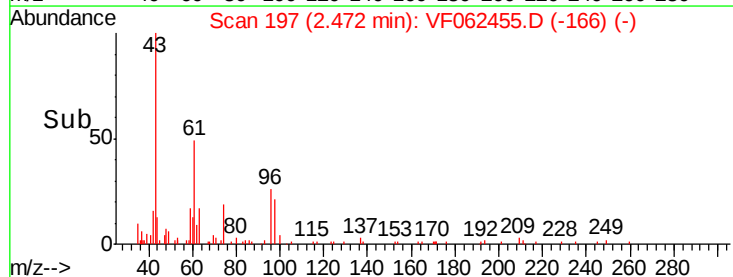
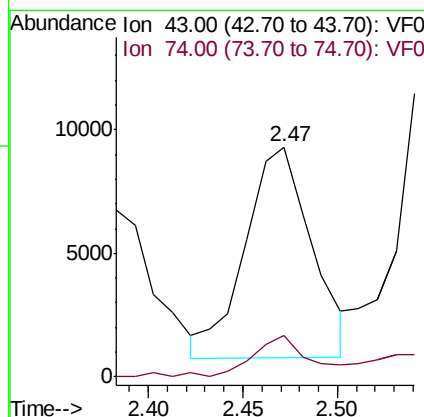
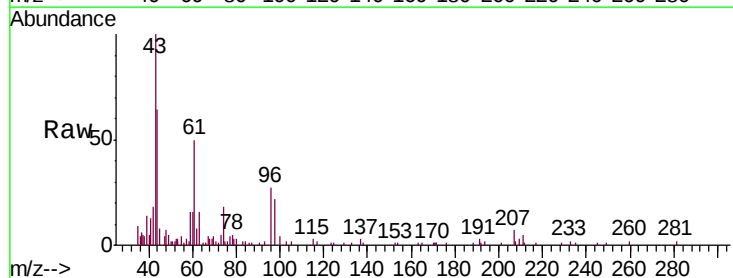
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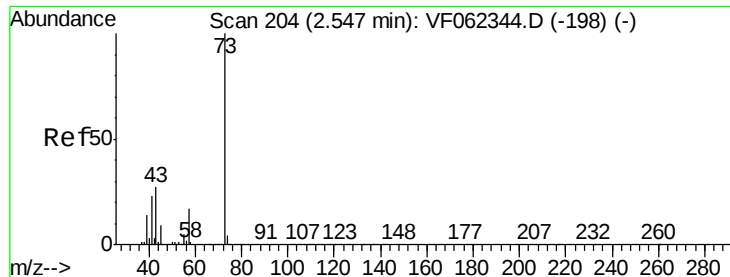
MMDadoda
5/12/2019 12:32:35 PM



#18
Methyl Acetate
Concen: 17.927 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
43	100		
74	16.5	15.0	22.4





#19

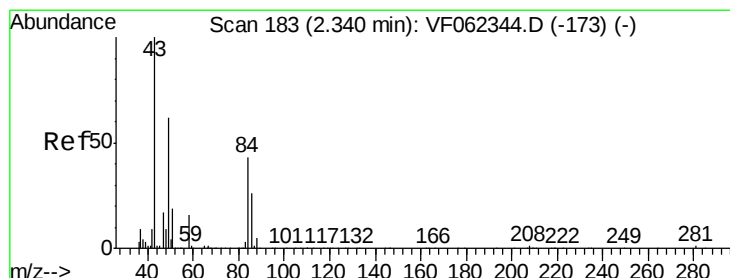
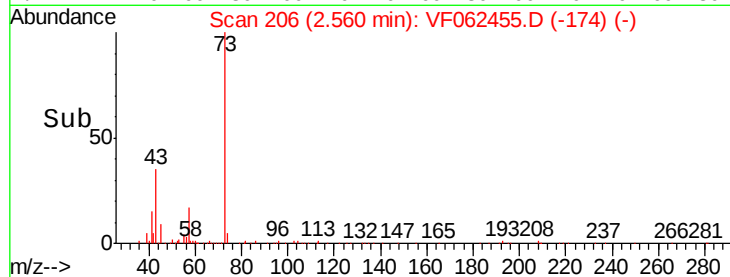
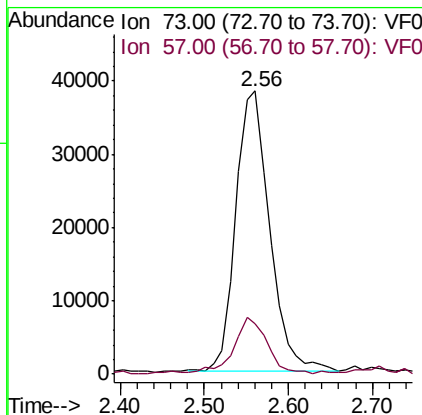
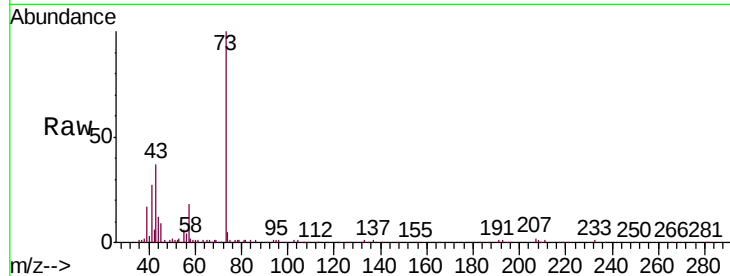
Methyl tert-butyl Ether
Concen: 22.655 ug/l
RT: 2.56 min Scan# 206
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Tgt Ion: 73 Resp: 107838
Ion Ratio Lower Upper
73 100
57 17.5 13.7 20.5

Manual Integrations
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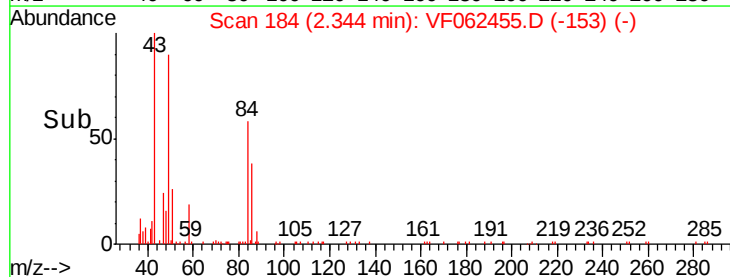
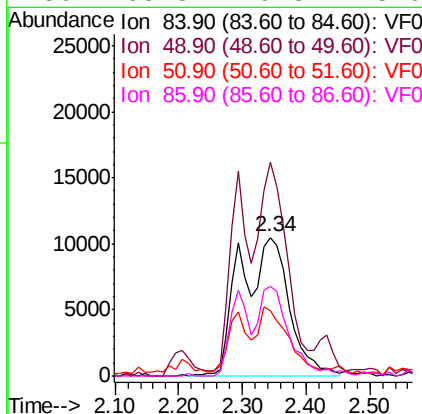
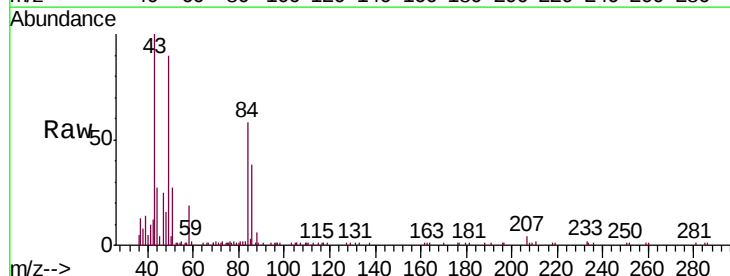
MMDadoda
5/12/2019 12:32:35 PM

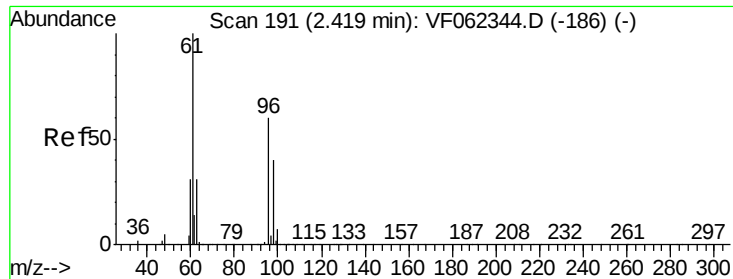


#20

Methylene Chloride
Concen: 26.812 ug/l m
RT: 2.34 min Scan# 184
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion: 84 Resp: 55777
Ion Ratio Lower Upper
84 100
49 154.5 117.5 176.3
51 47.2 37.0 55.4
86 65.3 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 22.295 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

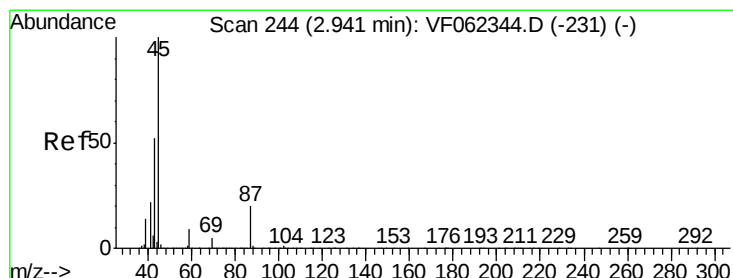
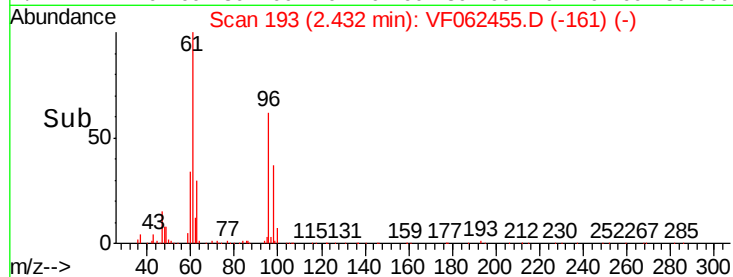
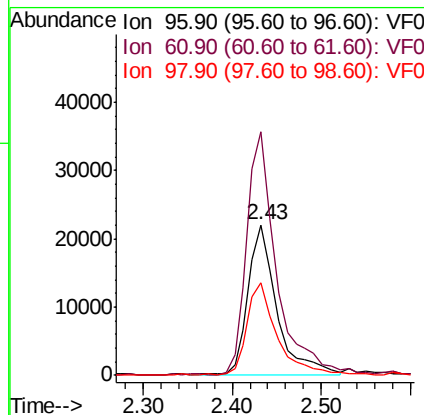
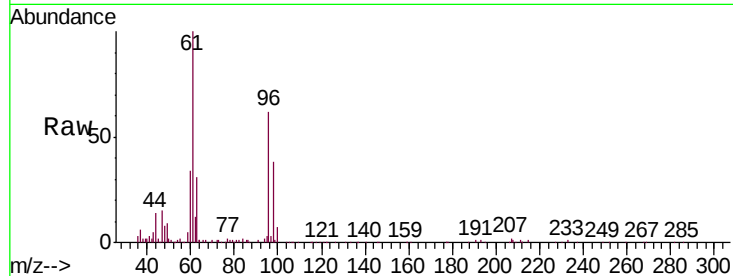
ClientSampleId :

VF0511SBS01

Tgt Ion:	96	Resp:	48981
Ion	Ratio	Lower	Upper
96	100		
61	161.5	133.2	199.8
98	61.7	53.1	79.7

Manual Integrations
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#22

Diisopropyl ether

Concen: 22.533 ug/l

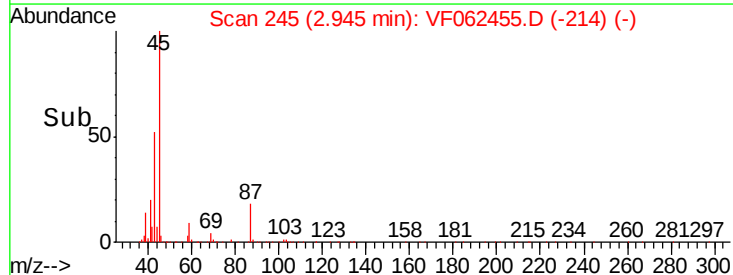
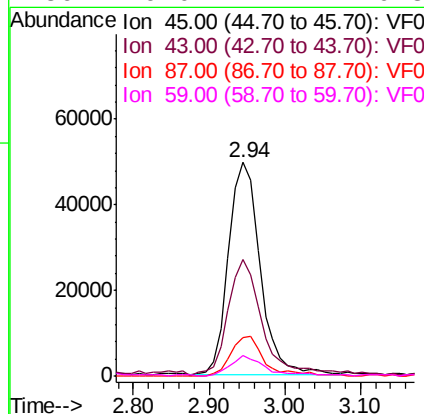
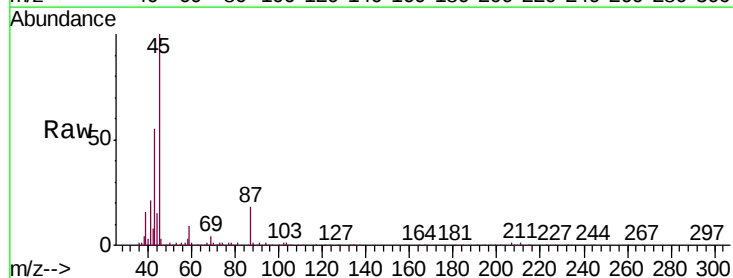
RT: 2.94 min Scan# 245

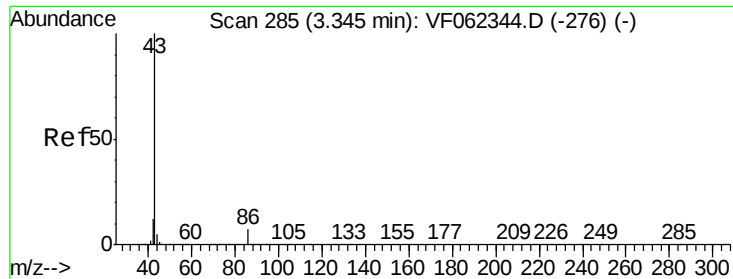
Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion:	45	Resp:	143449
Ion	Ratio	Lower	Upper
45	100		
43	54.9	41.4	62.0
87	18.2	15.8	23.6
59	9.0	7.2	10.8





#23

Vinyl Acetate

Concen: 112.888 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 43 Resp: 320304

Ion Ratio Lower Upper

43 100

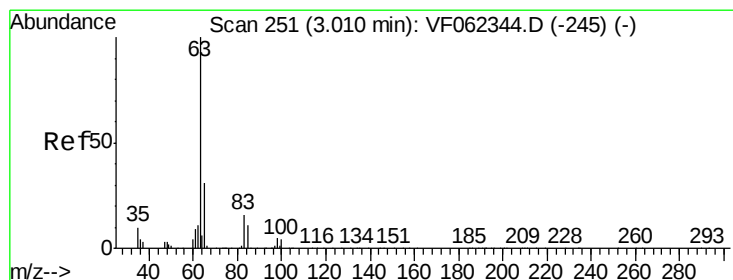
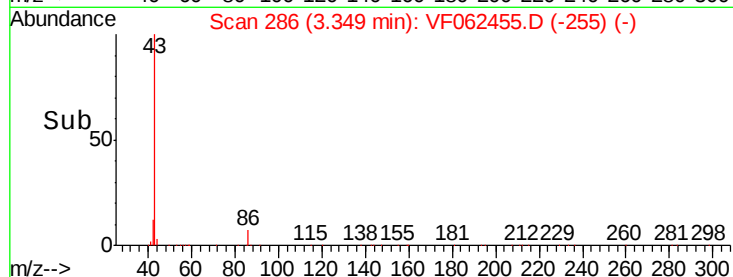
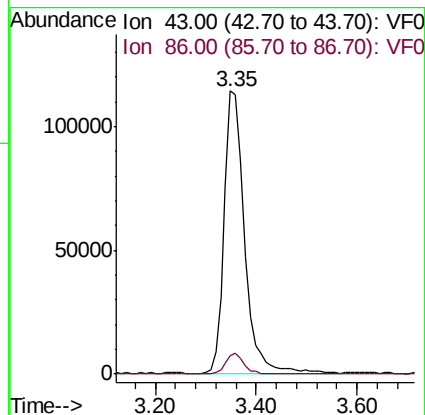
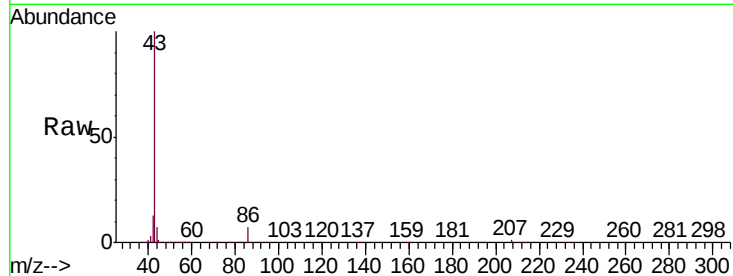
86 6.7 5.7 8.5

Manual Integrations

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MMDadoda

5/12/2019 12:32:35 PM



#24

1,1-Dichloroethane

Concen: 25.372 ug/l

RT: 3.02 min Scan# 253

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

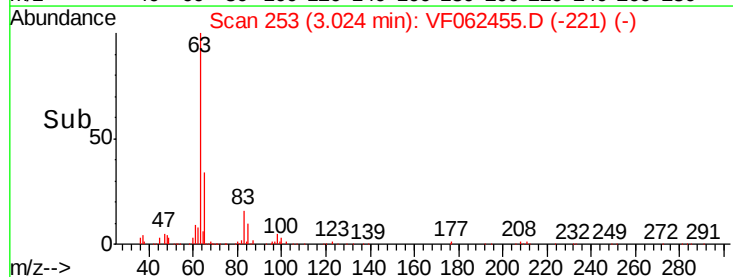
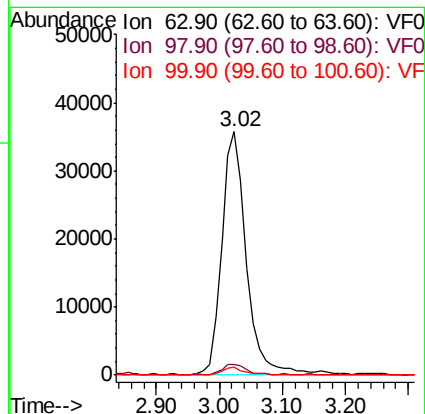
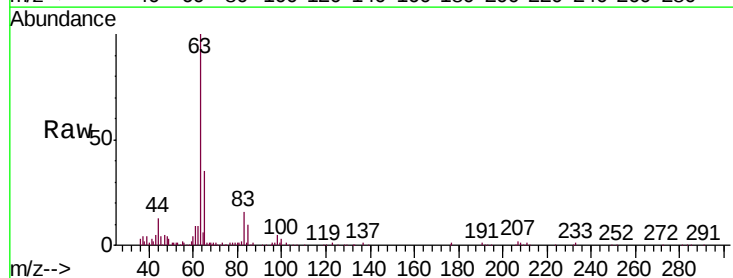
Tgt Ion: 63 Resp: 97620

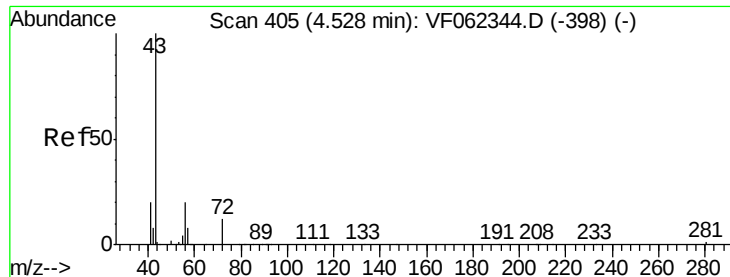
Ion Ratio Lower Upper

63 100

98 4.6 2.6 8.0

100 3.3 1.8 5.4





#25

2-Butanone

Concen: 110.307 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 43 Resp: 79681

Ion Ratio Lower Upper

43 100

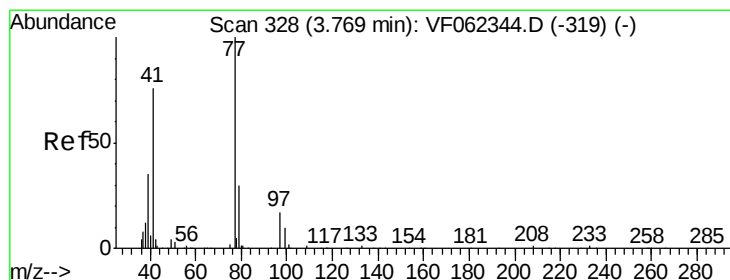
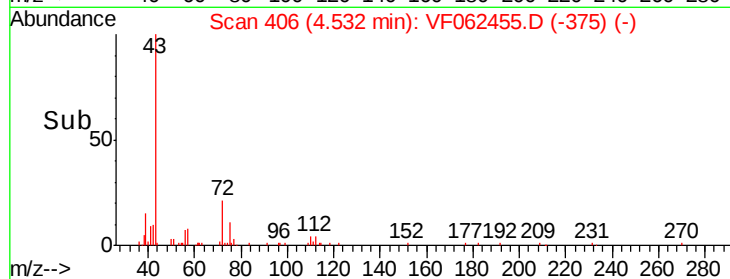
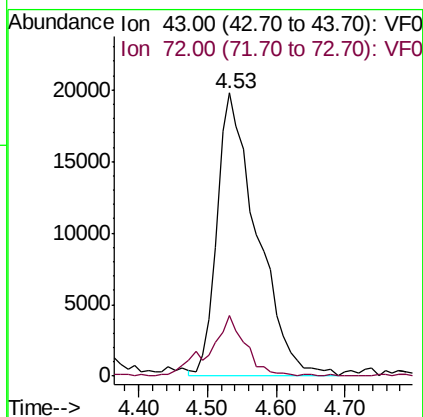
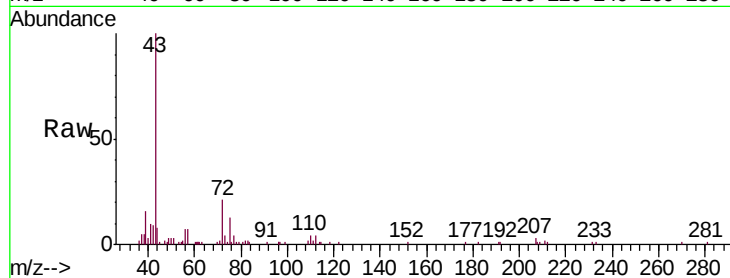
72 21.3 14.2 21.4

Manual Integrations

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MMDadoda

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#26

2,2-Dichloropropane

Concen: 30.107 ug/l

RT: 3.78 min Scan# 330

Delta R.T. 0.01 min

Lab File: VF062455.D

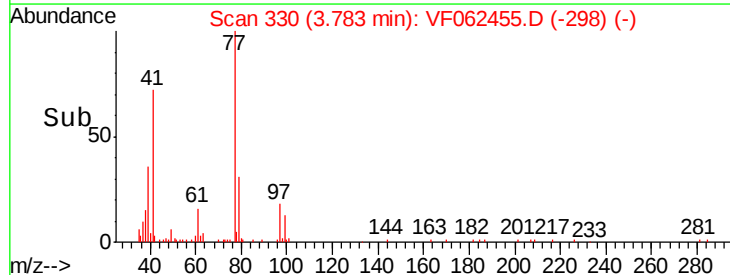
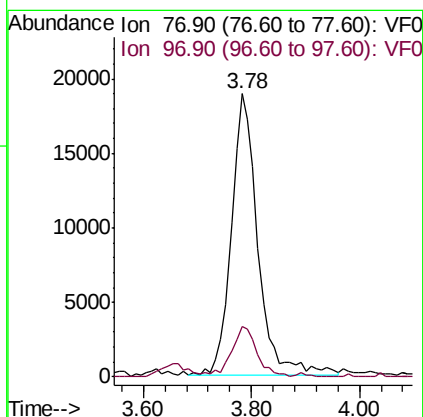
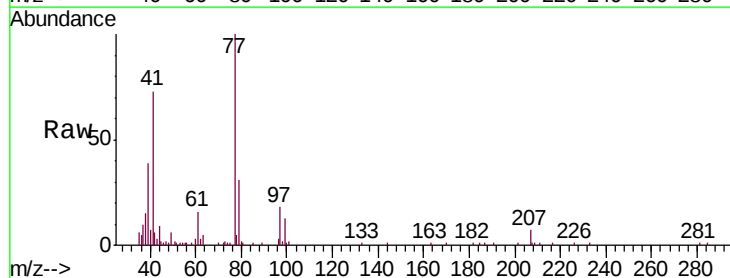
Acq: 11 May 2019 12:56

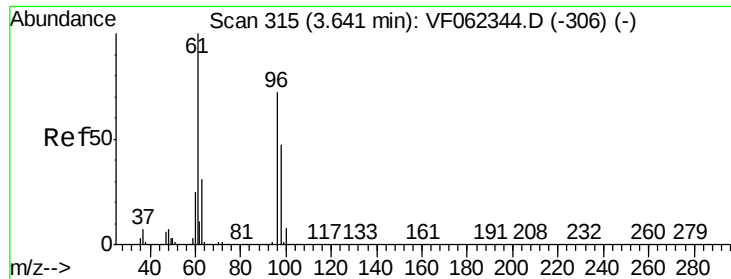
Tgt Ion: 77 Resp: 64690

Ion Ratio Lower Upper

77 100

97 17.4 9.5 28.5





#27

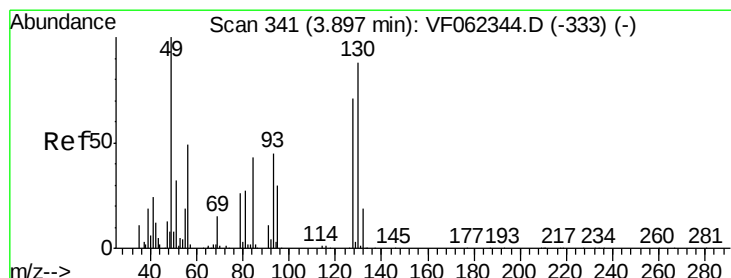
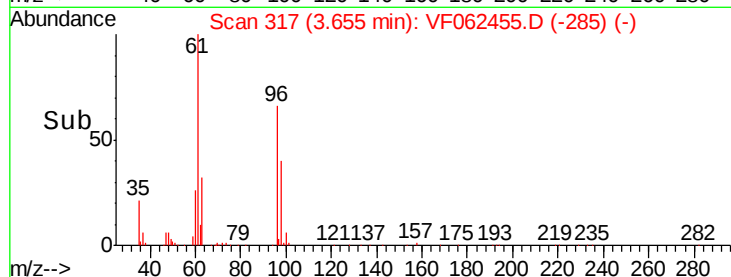
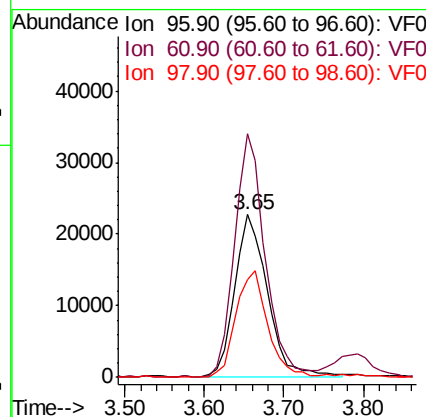
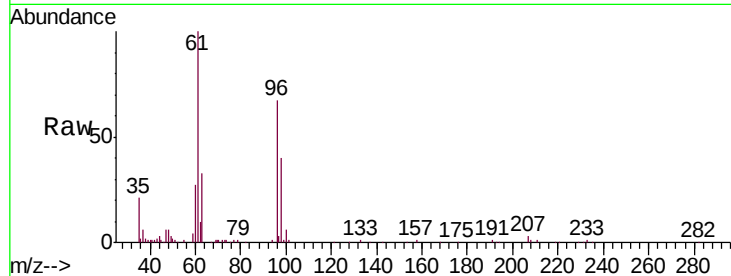
cis-1,2-Dichloroethene
Concen: 23.958 ug/l
RT: 3.65 min Scan# 317
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	65794		
61	138.6	0.0	263.0	
98	63.5	0.0	130.8	

Manual Integrations
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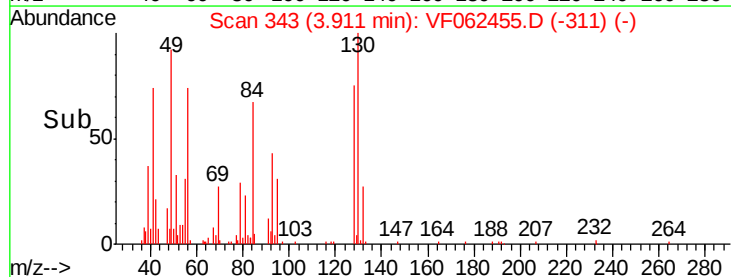
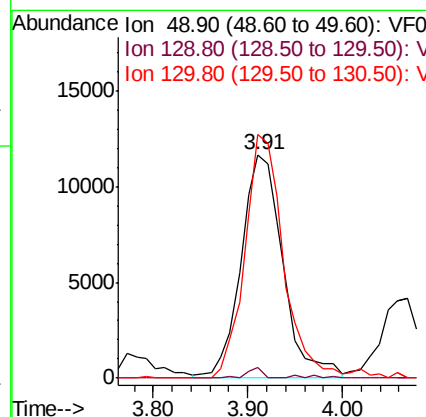
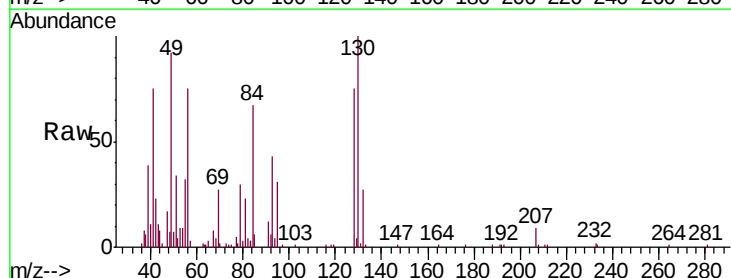
MMDadoda
5/12/2019 12:32:35 PM

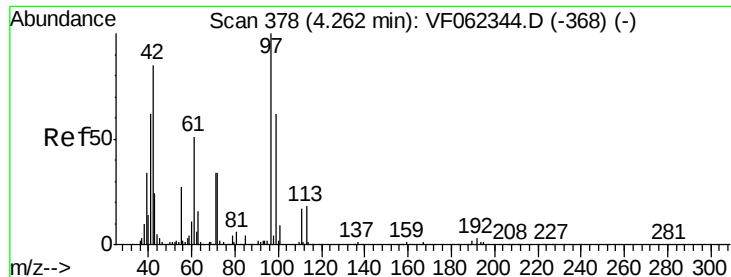


#28

Bromochloromethane
Concen: 20.622 ug/l
RT: 3.91 min Scan# 343
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	35984		
129	1.7	0.0	2.2	
130	100.3	79.4	119.0	





#29

Tetrahydrofuran

Concen: 92.830 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

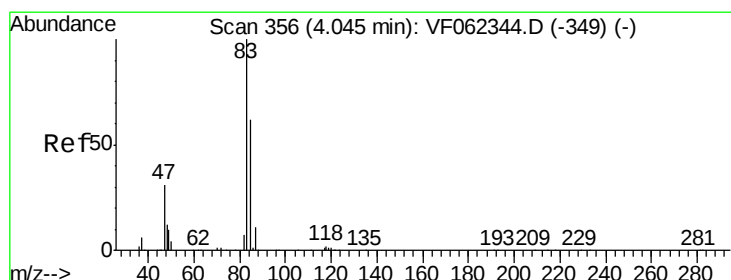
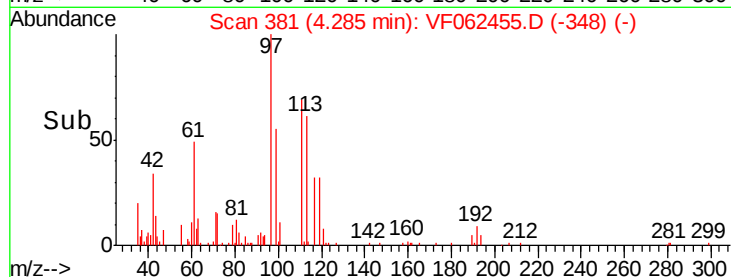
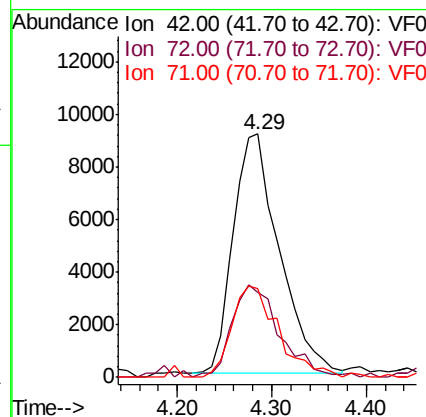
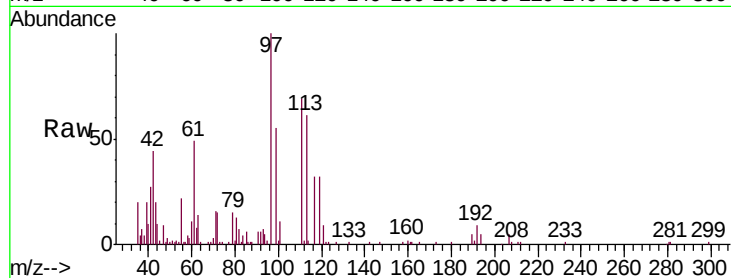
ClientSampleId :

VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	40.6	31.4	47.0
71	39.0	31.7	47.5

Manual Integrations
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#30

Chloroform

Concen: 24.817 ug/l

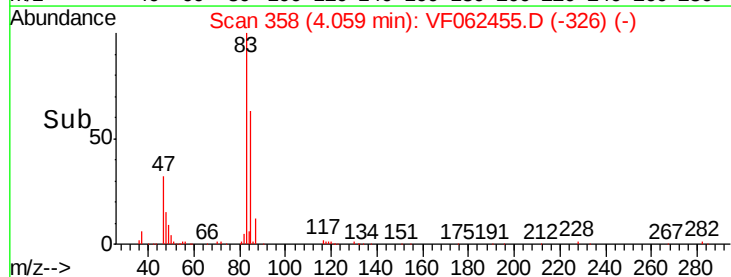
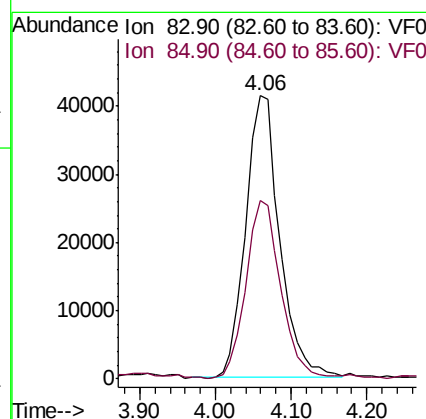
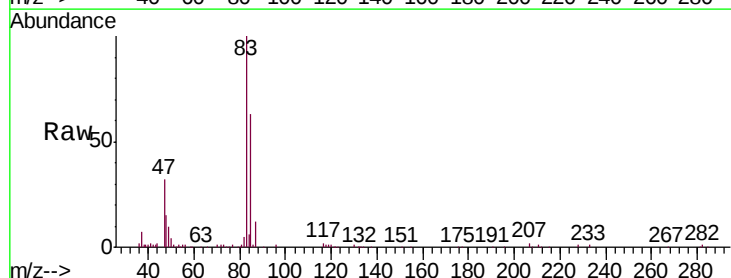
RT: 4.06 min Scan# 358

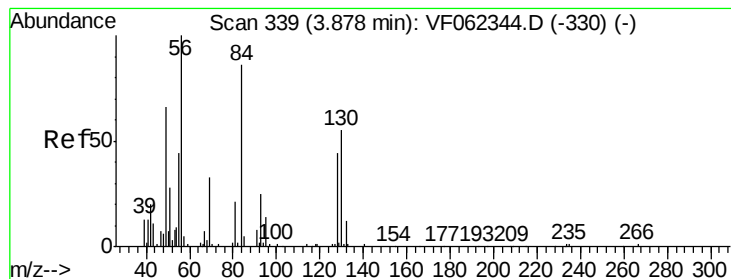
Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.9	49.6	74.4





#31

Cyclohexane

Concen: 22.854 ug/l

RT: 3.89 min Scan# 341

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

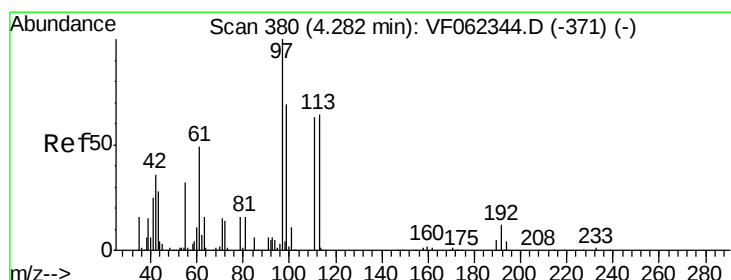
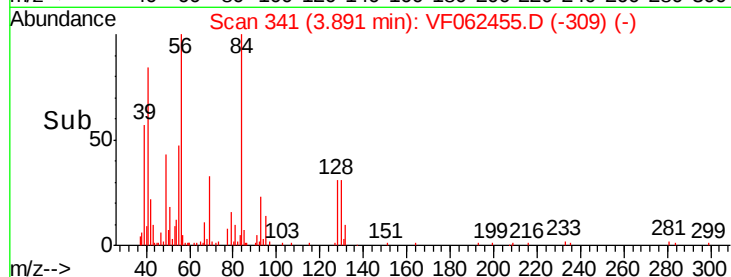
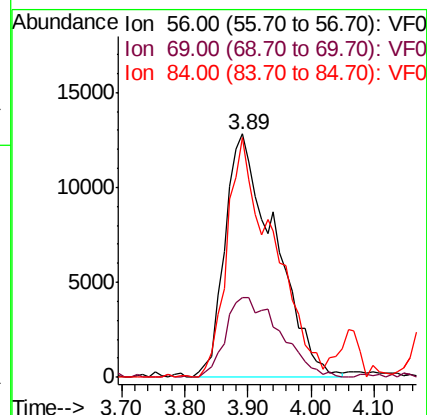
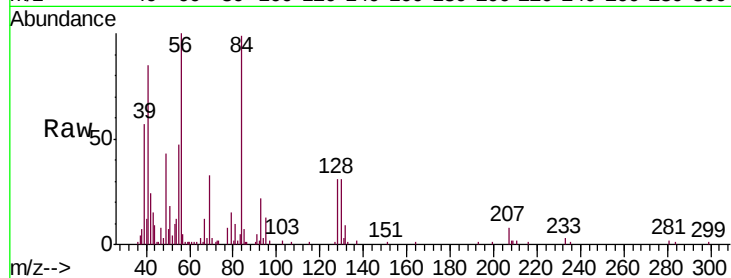
ClientSampleId :

VF0511SBS01

Tgt Ion:	56	Resp:	70186
Ion Ratio	Lower	Upper	
56	100		
69	32.7	26.4	39.6
84	98.7	69.0	103.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 25.631 ug/l

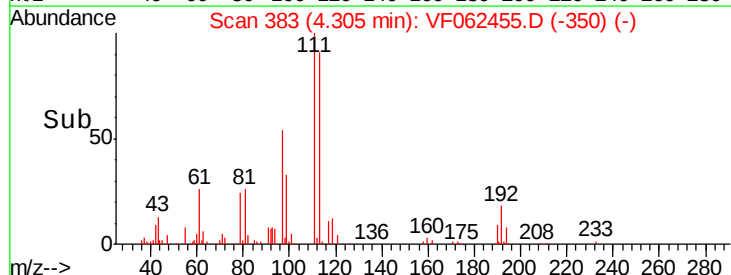
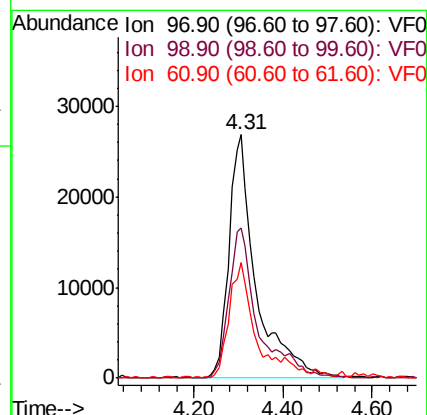
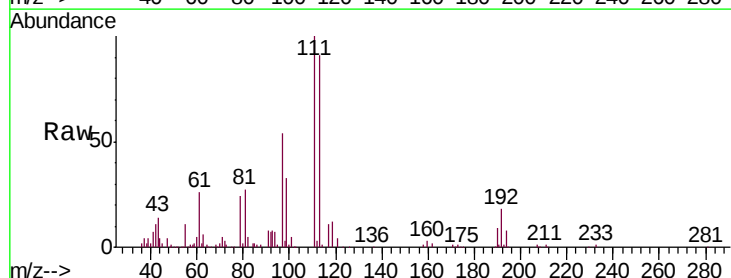
RT: 4.31 min Scan# 383

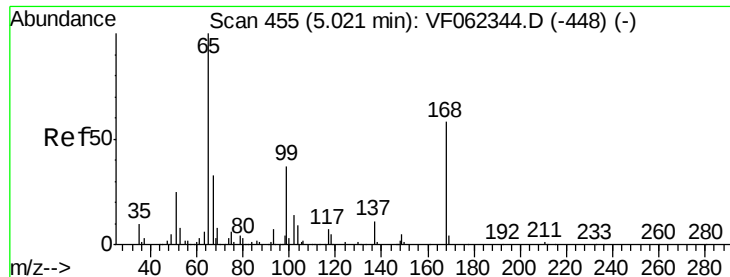
Delta R.T. 0.02 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion:	97	Resp:	114190
Ion Ratio	Lower	Upper	
97	100		
99	65.2	52.6	78.8
61	47.3	39.4	59.0





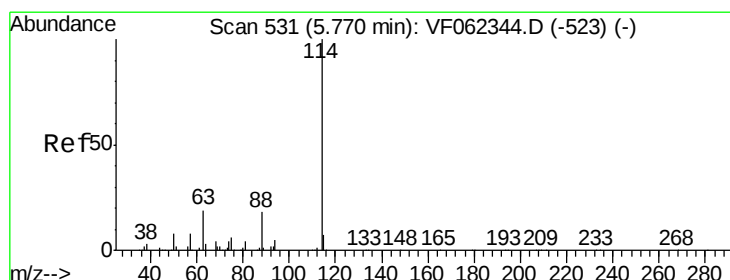
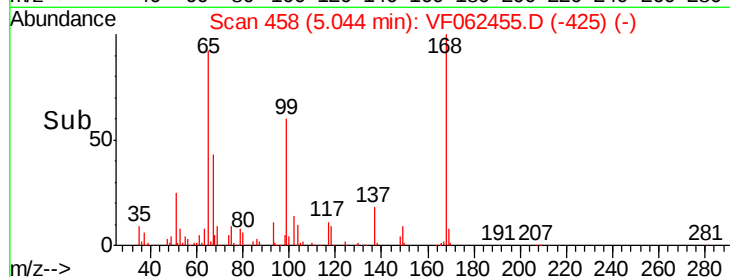
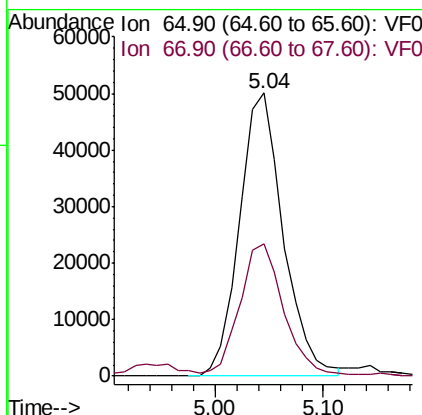
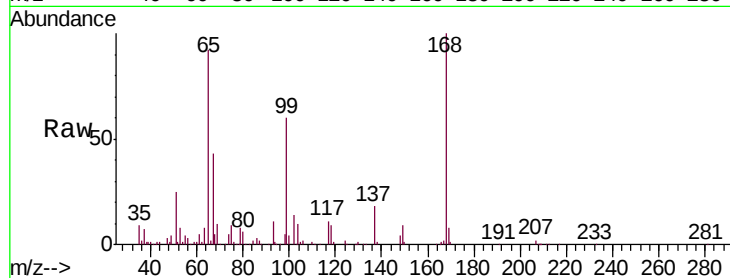
#33
 1,2-Dichloroethane-d4
 Concen: 49.495 ug/l
 RT: 5.04 min Scan# 458
 Delta R.T. 0.02 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	140680		
67	47.3	0.0	85.8	

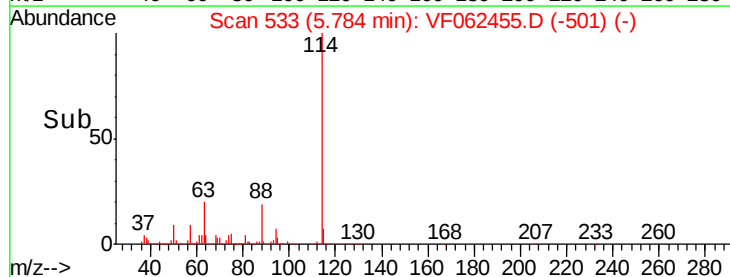
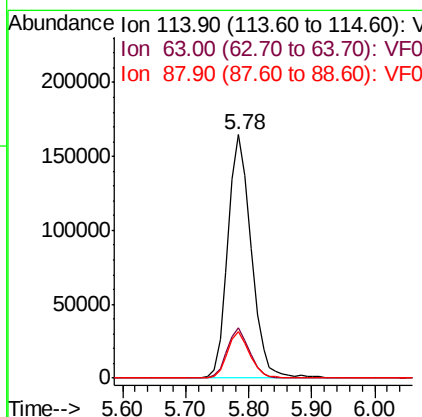
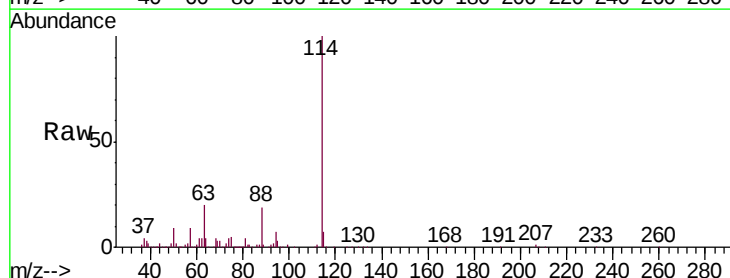
Manual Integrations
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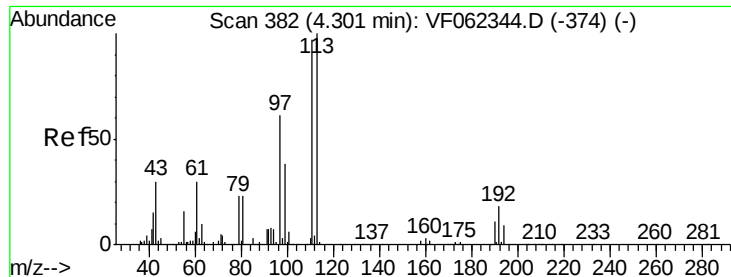
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	424242		
63	20.5	0.0	37.4	
88	19.1	0.0	36.4	





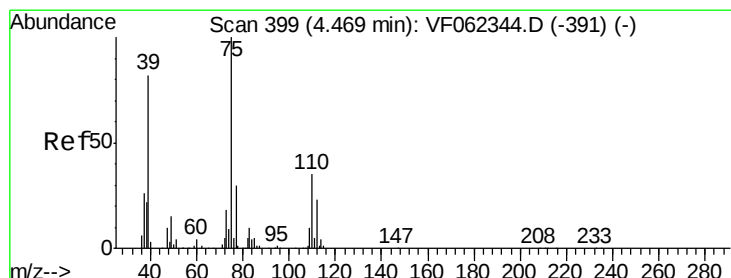
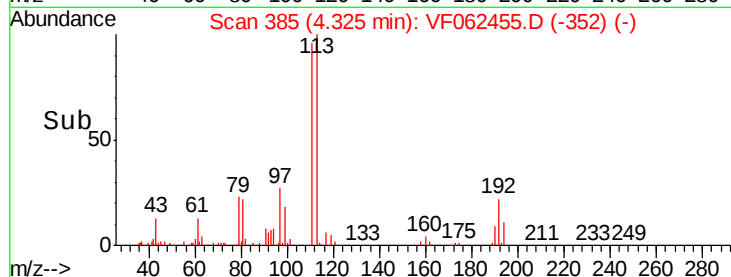
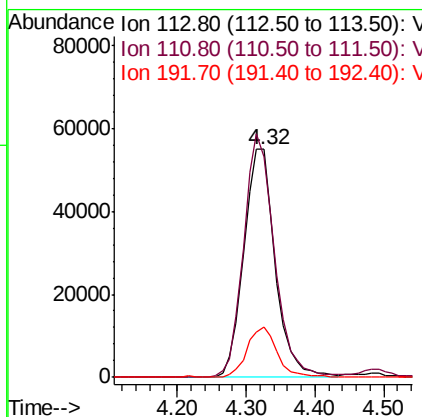
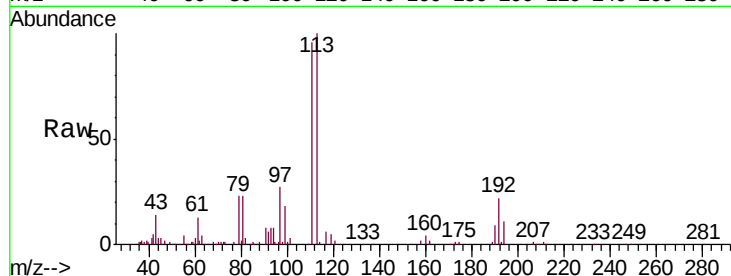
#35
 Dibromofluoromethane
 Concen: 51.671 ug/l
 RT: 4.32 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	174640		
111	104.4	79.4	119.0	
192	21.0	16.0	24.0	

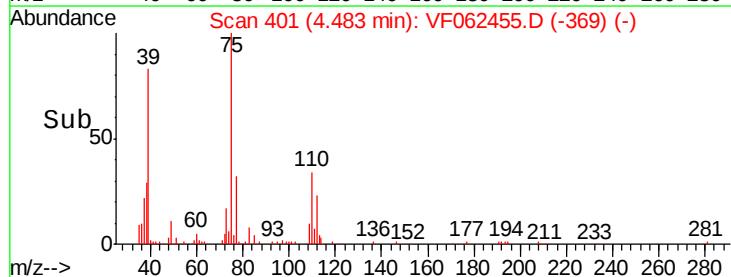
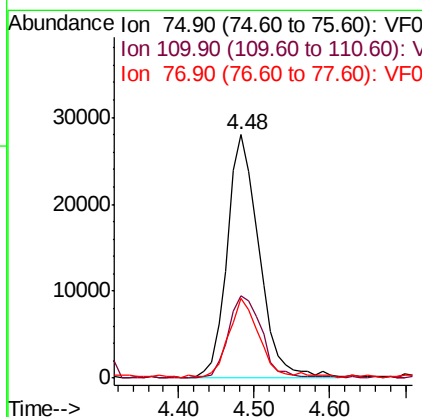
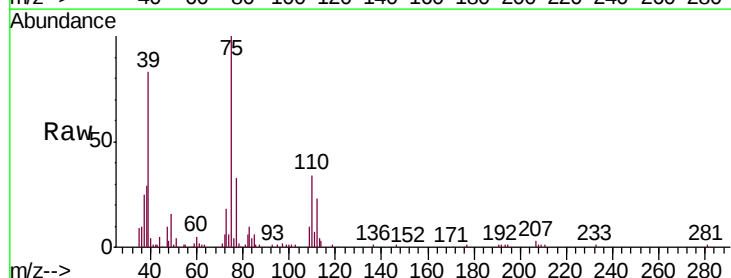
Manual Integrations
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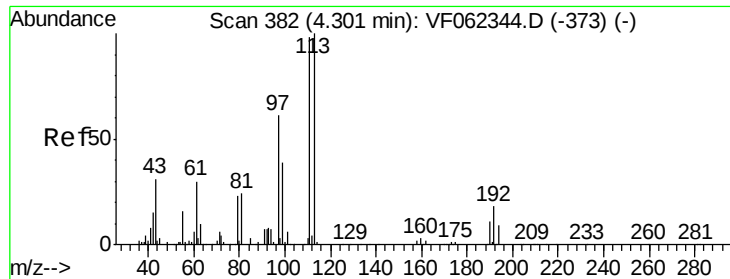
MMDadoda
 5/12/2019 12:32:35 PM



#36
 1,1-Dichloropropene
 Concen: 22.521 ug/l
 RT: 4.48 min Scan# 401
 Delta R.T. 0.01 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	82074		
110	34.9	17.2	51.5	
77	31.0	25.2	37.8	





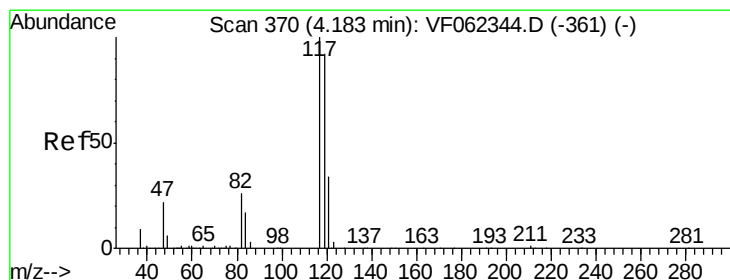
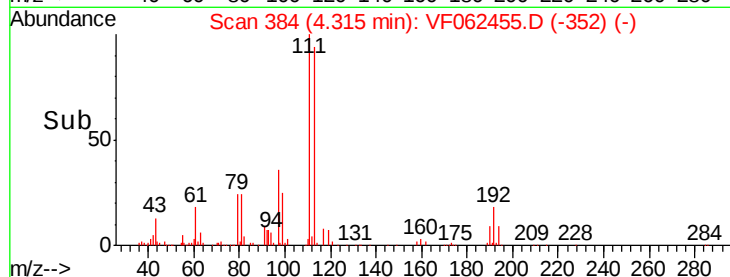
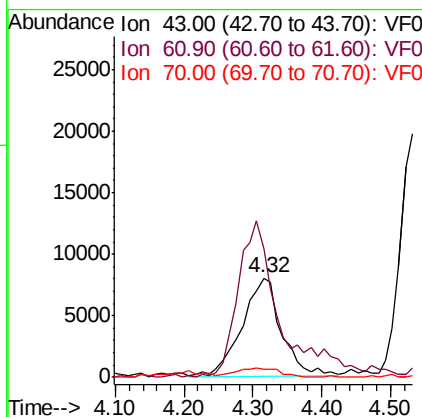
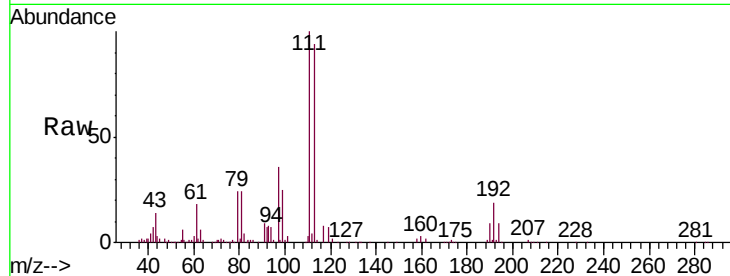
#37
Ethyl Acetate
Concen: 18.959 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	171.2	0.0	0.0#
70	10.6	8.2	12.2

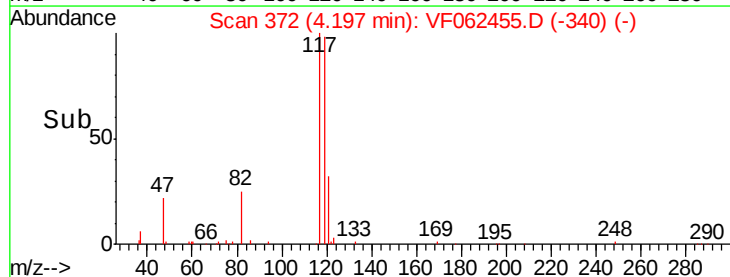
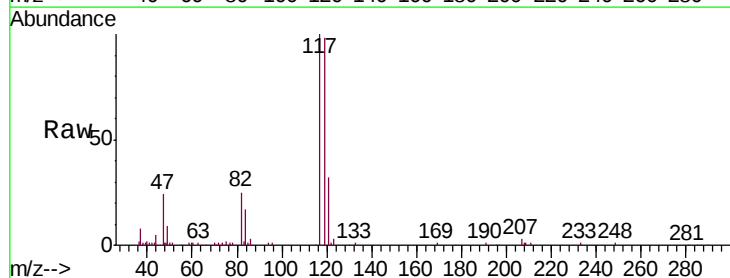
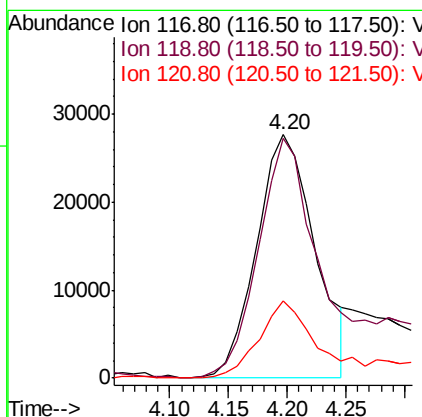
Manual Integrations
APPROVED

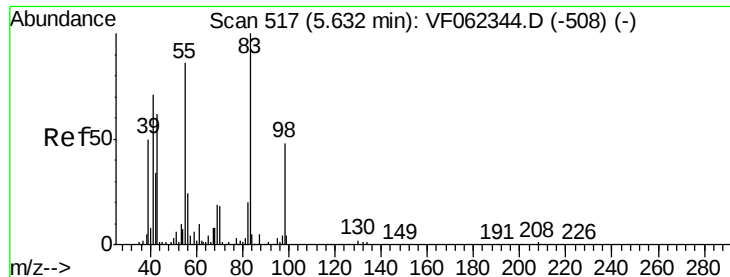
MMDadoda
5/12/2019 12:32:35 PM



#38
Carbon Tetrachloride
Concen: 23.970 ug/l m
RT: 4.20 min Scan# 372
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.5	73.4	110.2
121	31.6	27.4	41.0





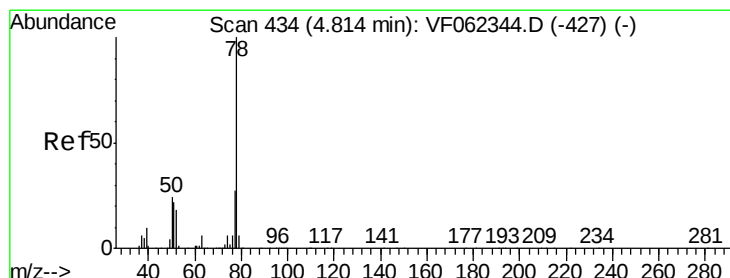
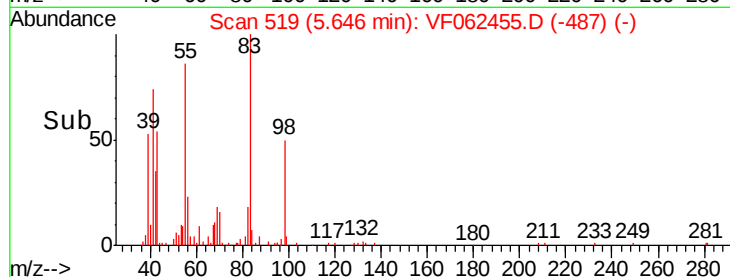
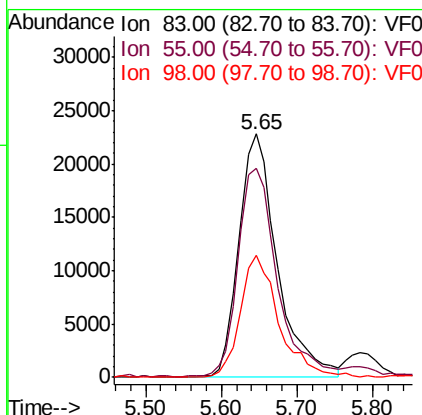
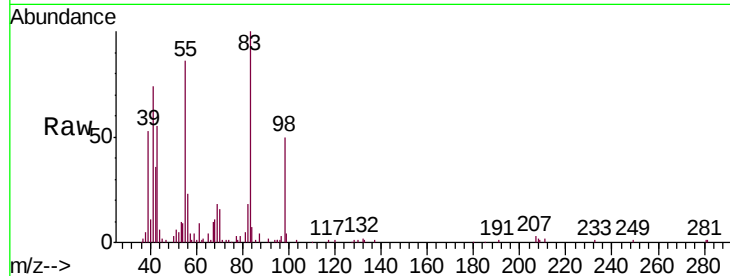
#39
Methylcyclohexane
Concen: 22.015 ug/l
RT: 5.65 min Scan# 519
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	85.4	69.0	103.6
98	50.0	38.6	58.0

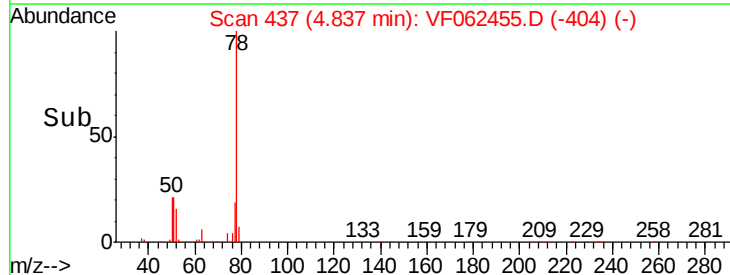
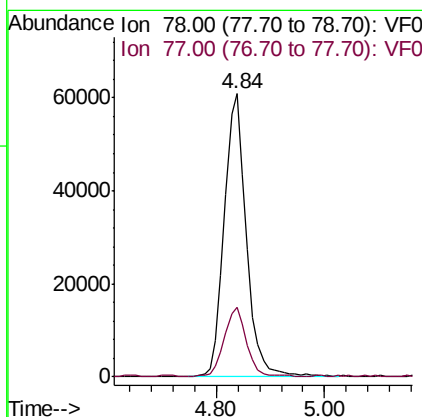
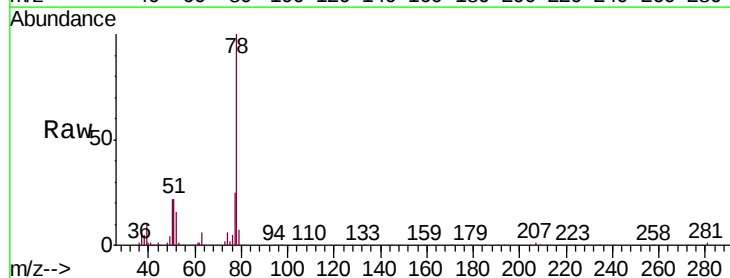
Manual Integrations
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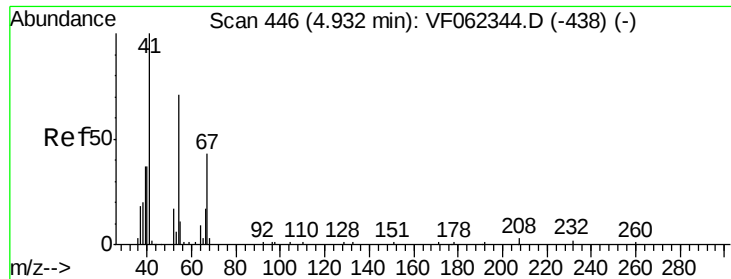
MMDadoda
5/12/2019 12:32:35 PM



#40
Benzene
Concen: 21.601 ug/l
RT: 4.84 min Scan# 437
Delta R.T. 0.02 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	21.6	32.4





#41

Methacrylonitrile

Concen: 16.625 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

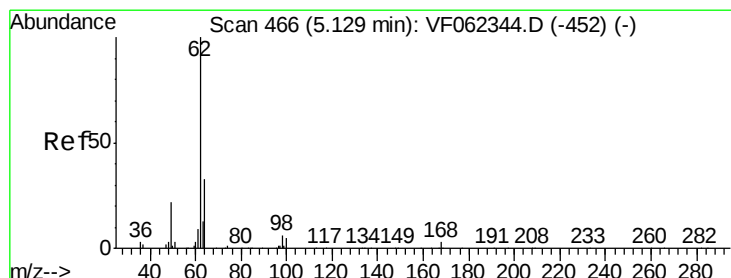
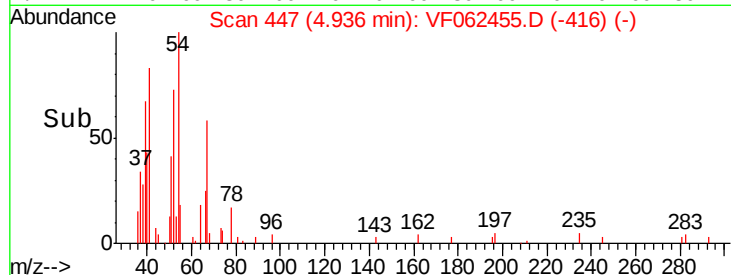
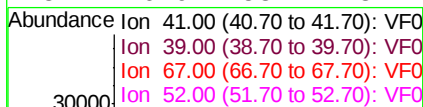
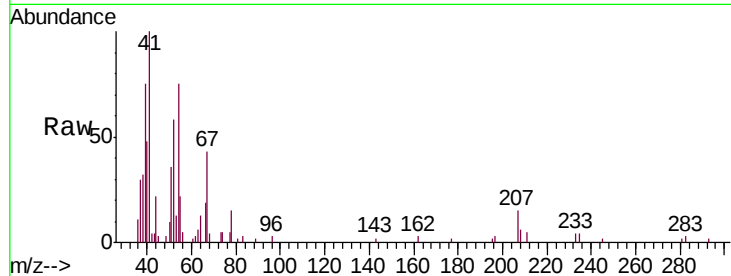
ClientSampleId :

VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	83.1	54.3	81.5#
67	48.3	37.8	56.8
52	76.9	58.2	87.4

Manual Integrations
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5/12/2019 12:32:35 PM



#42

1,2-Dichloroethane

Concen: 21.117 ug/l

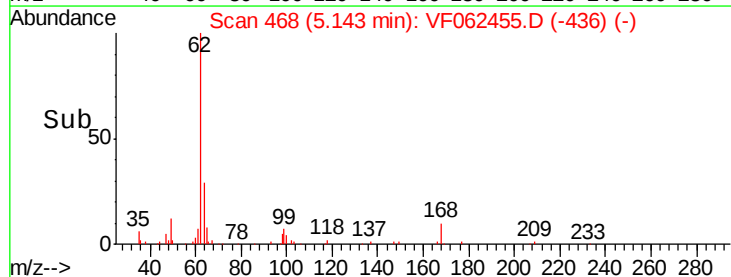
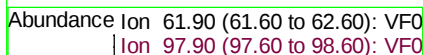
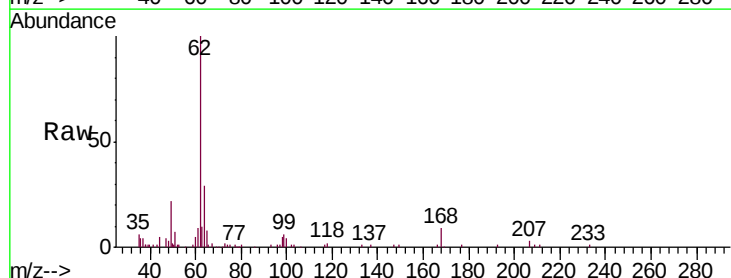
RT: 5.14 min Scan# 468

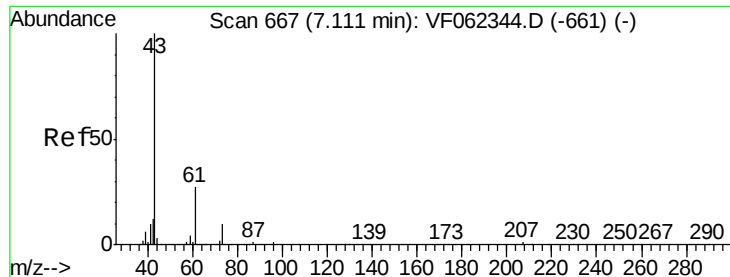
Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.7	0.0	12.4





#43

Isopropyl Acetate

Concen: 19.359 ug/l

RT: 7.12 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

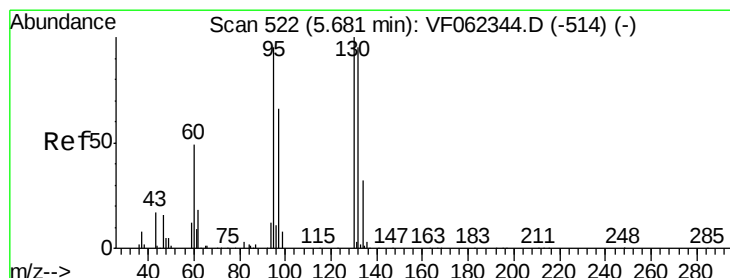
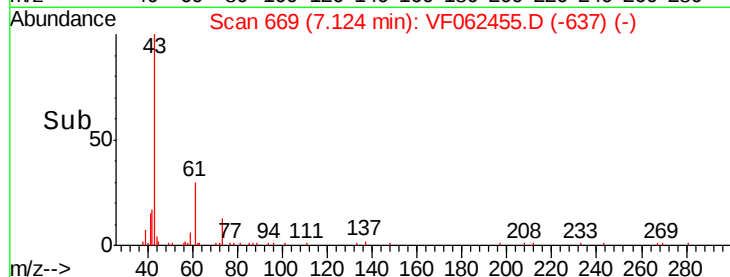
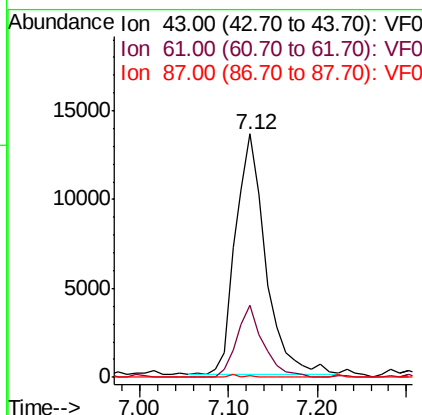
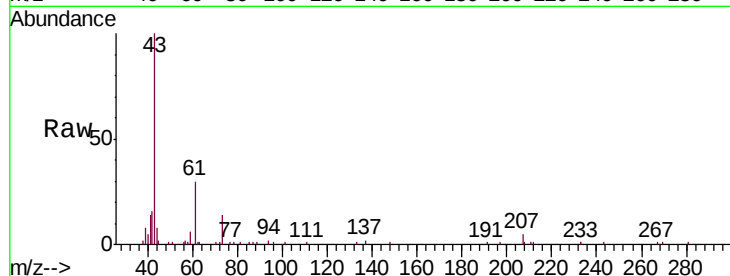
ClientSampleId :

VF0511SBSD01

Tgt Ion:	43	Resp:	32090
Ion	Ratio	Lower	Upper
43	100		
61	26.3	22.8	34.2
87	0.6	0.6	1.0#

Manual Integrations
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#44

Trichloroethene

Concen: 23.113 ug/l

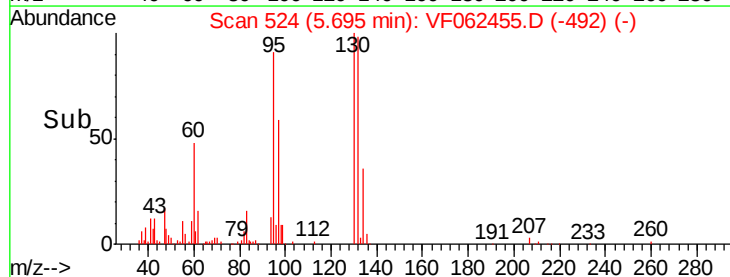
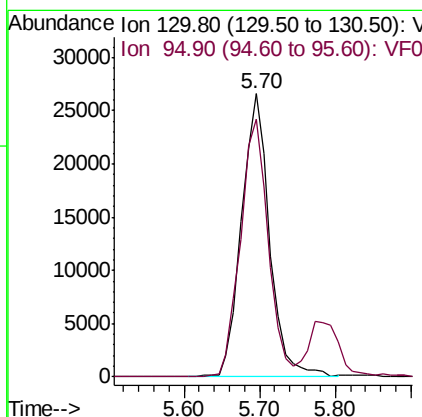
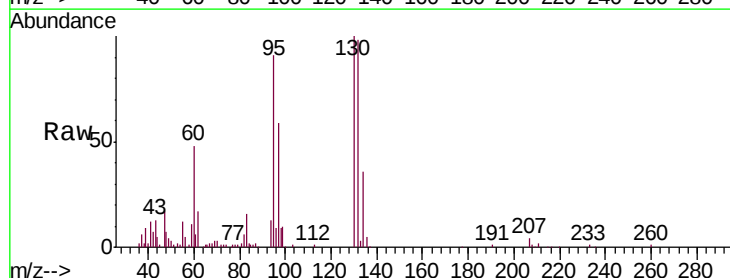
RT: 5.70 min Scan# 524

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion:	130	Resp:	68139
Ion	Ratio	Lower	Upper
130	100		
95	90.9	0.0	189.0





#45

1,2-Dichloropropane

Concen: 23.086 ug/l

RT: 6.42 min Scan# 598

Delta R.T. 0.02 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 63 Resp: 41964

Ion Ratio Lower Upper

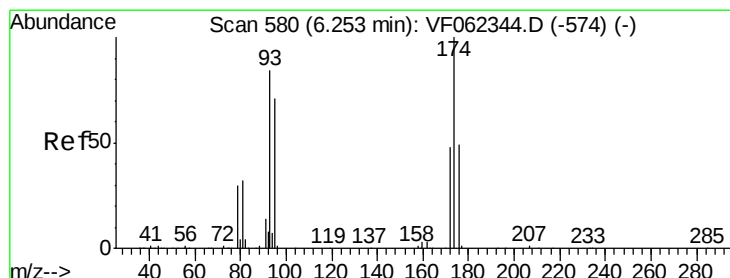
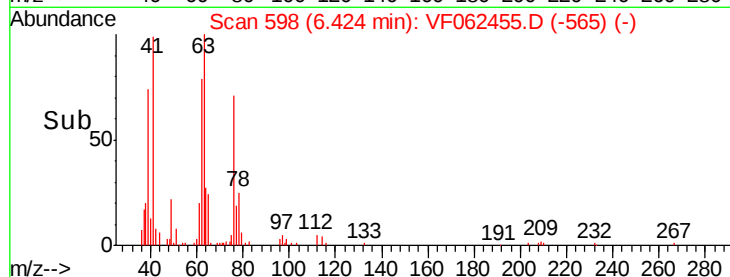
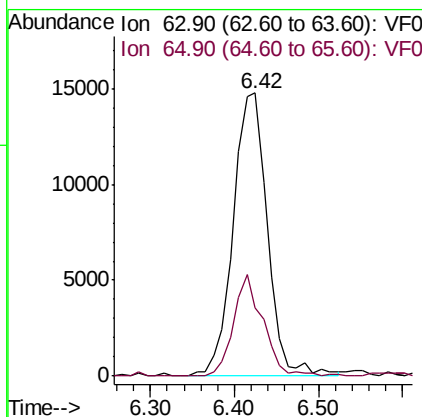
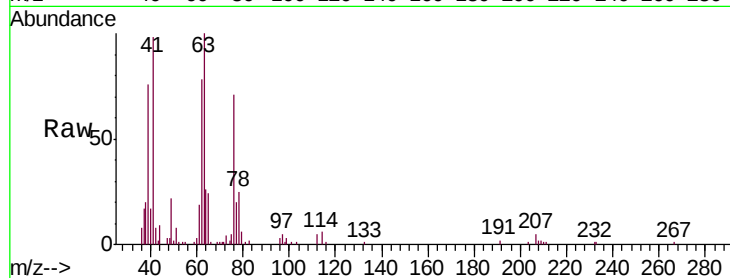
63 100

65 24.1 25.6 38.4#

Manual Integrations
APPROVED

MMDadoda

5/12/2019 12:32:35 PM



#46

Dibromomethane

Concen: 19.717 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.02 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

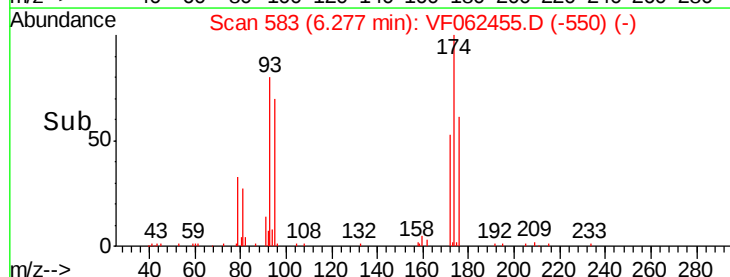
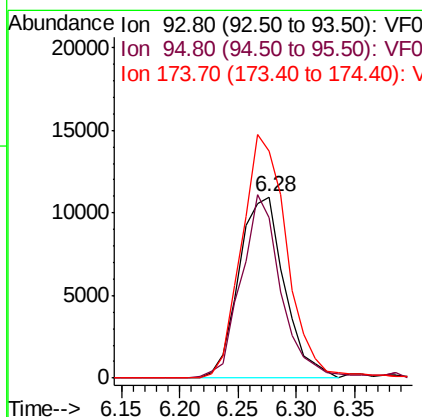
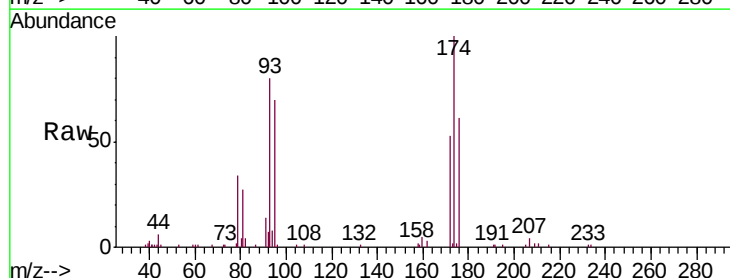
Tgt Ion: 93 Resp: 29716

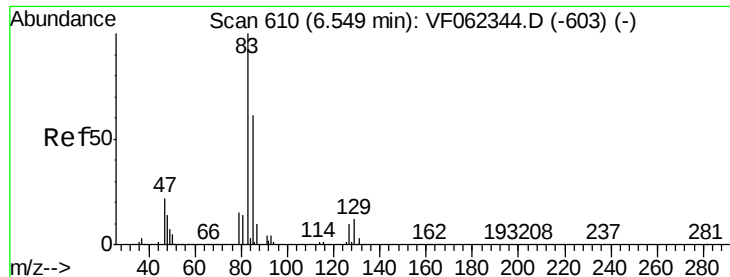
Ion Ratio Lower Upper

93 100

95 89.0 68.4 102.6

174 134.6 99.6 149.4





#47

Bromodichloromethane

Concen: 21.594 ug/l

RT: 6.56 min Scan# 612

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

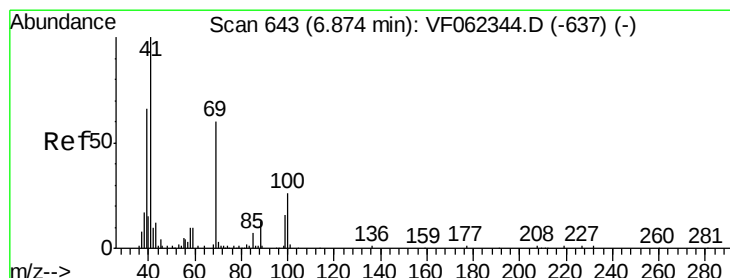
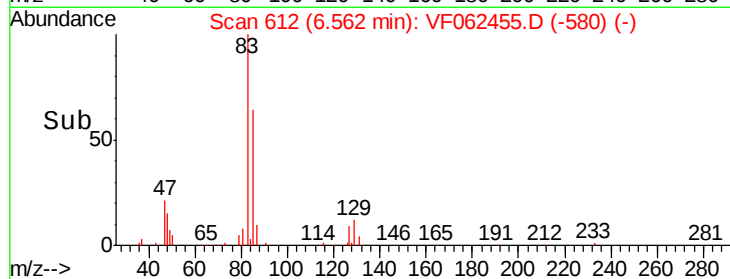
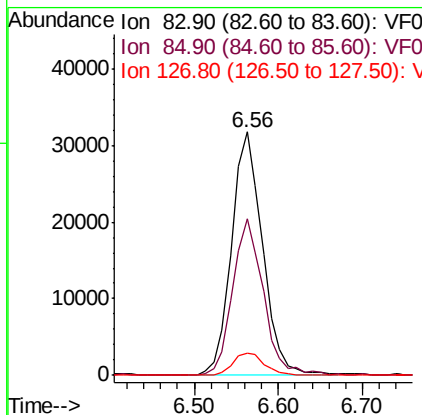
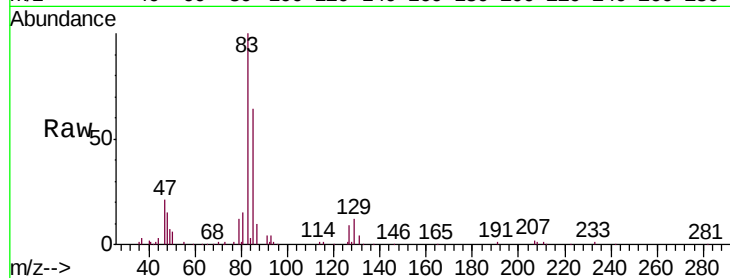
ClientSampleId :

VF0511SBS01

Tgt Ion:	83	Resp:	81367
Ion Ratio	Lower	Upper	
83	100		
85	64.3	49.1	73.7
127	9.3	7.8	11.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.978 ug/l

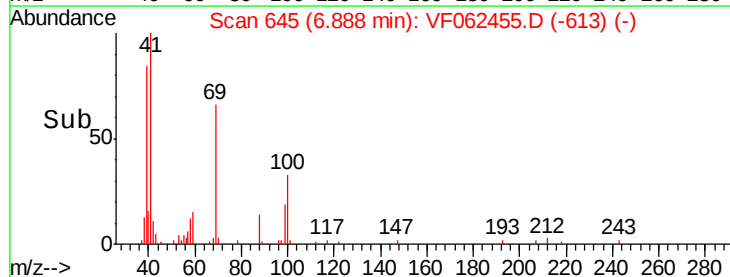
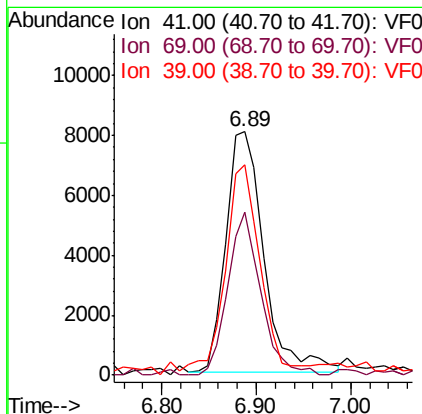
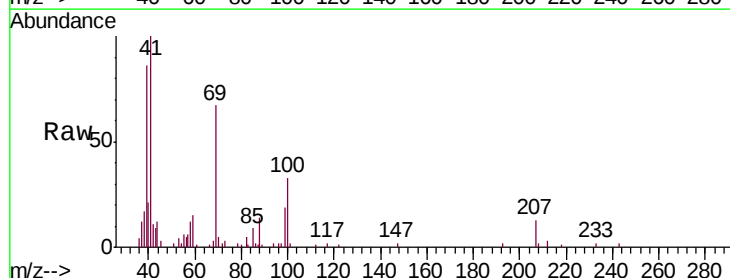
RT: 6.89 min Scan# 645

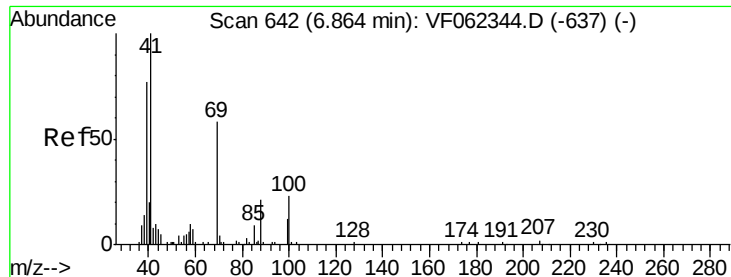
Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion:	41	Resp:	22232
Ion Ratio	Lower	Upper	
41	100		
69	59.3	48.6	72.8
39	83.0	56.1	84.1





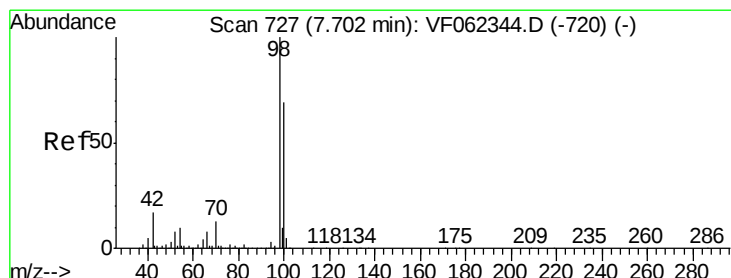
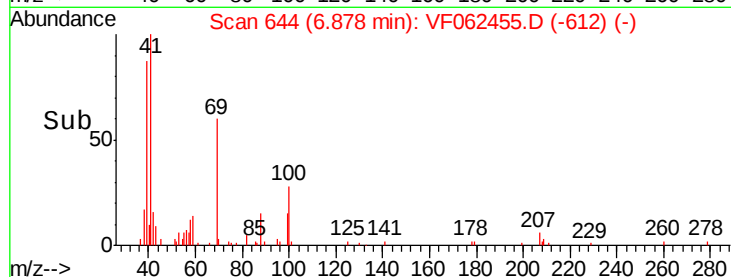
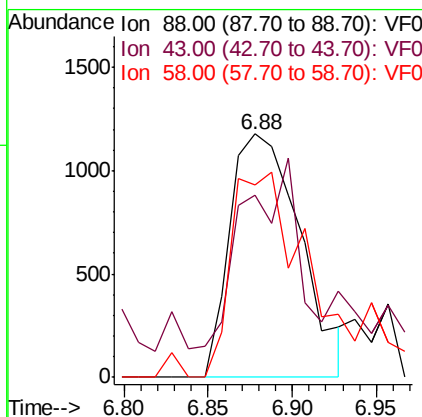
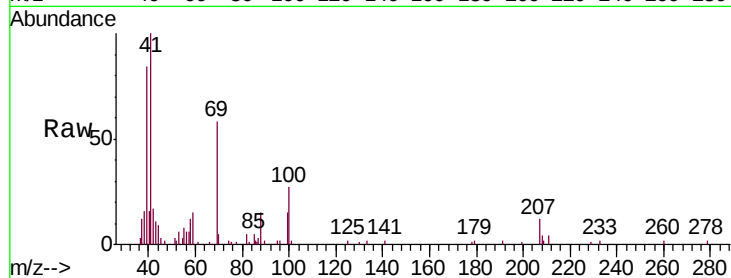
#49
1,4-Dioxane
Concen: 273.540 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	60.4	55.6	83.4
58	89.0	52.8	79.2

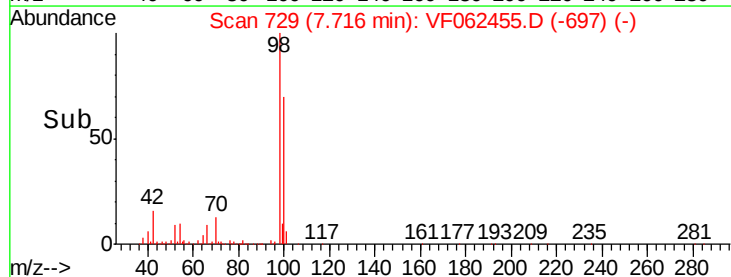
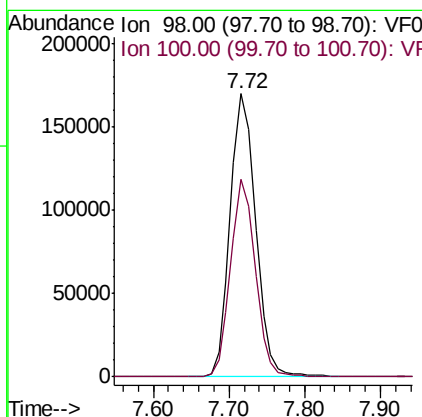
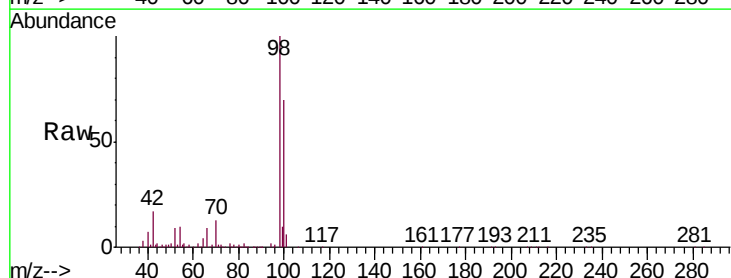
Manual Integrations
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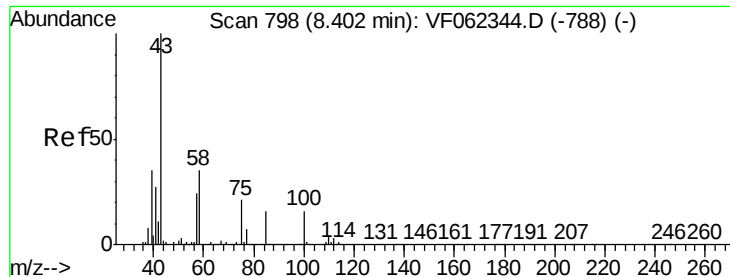
MMDadoda
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#50
Toluene-d8
Concen: 48.613 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.3	79.9





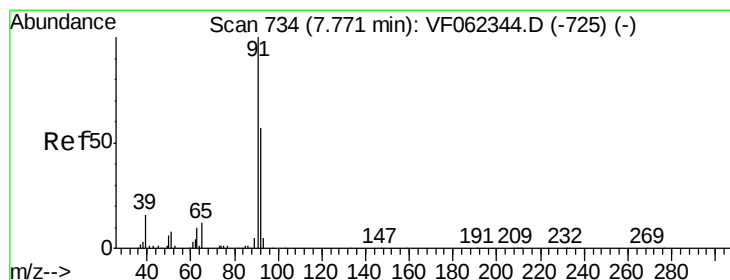
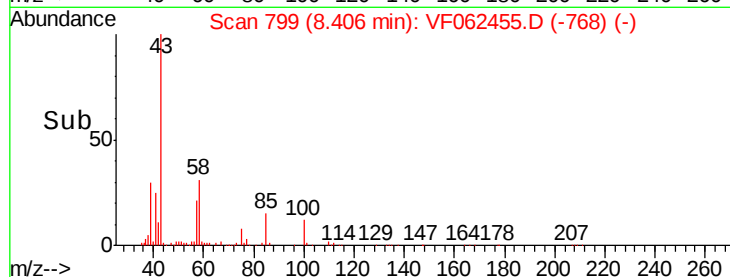
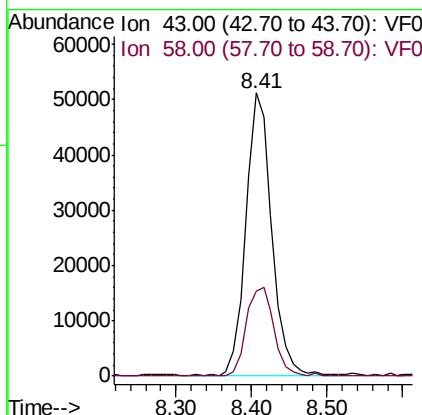
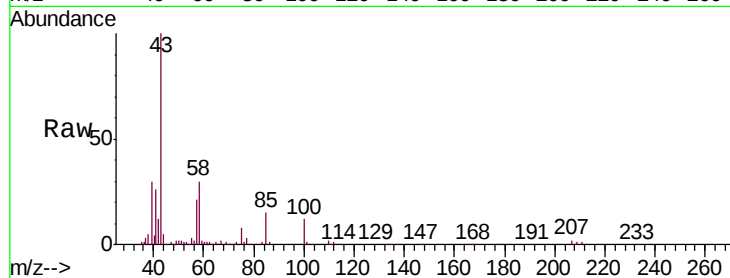
#51
4-Methyl-2-Pentanone
Concen: 97.352 ug/l
RT: 8.41 min Scan# 799
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.2	27.8	41.6

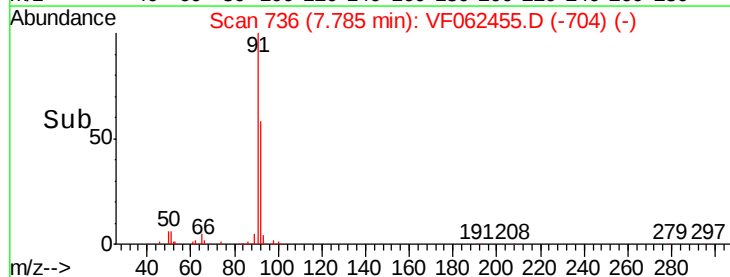
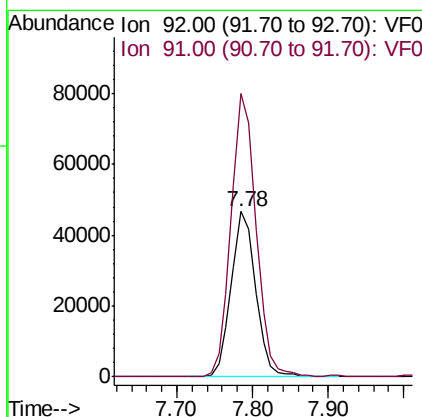
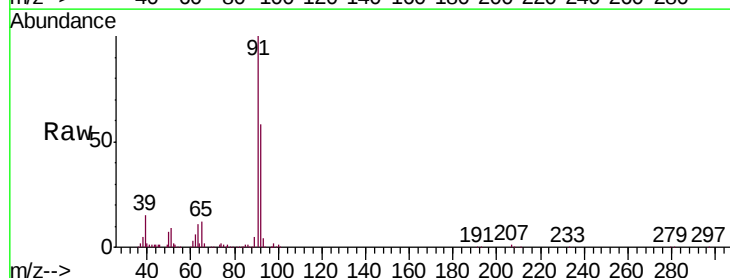
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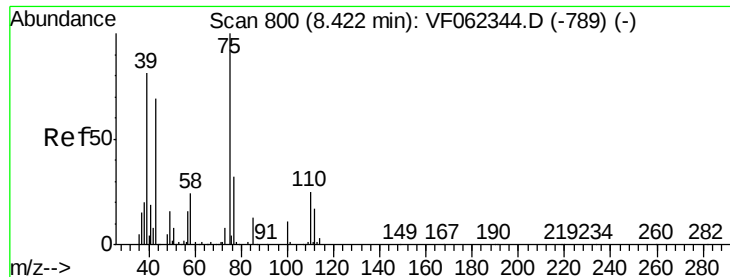
MMDadoda
5/12/2019 12:32:35 PM



#52
Toluene
Concen: 21.247 ug/l
RT: 7.78 min Scan# 736
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.7	208.1





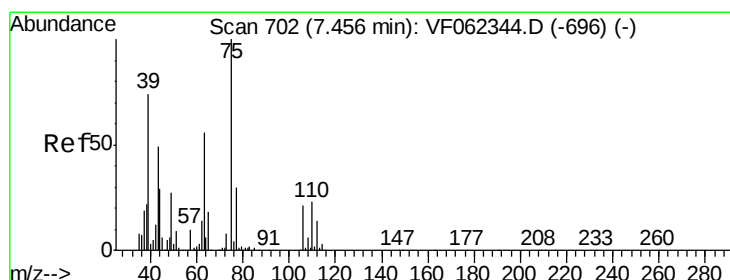
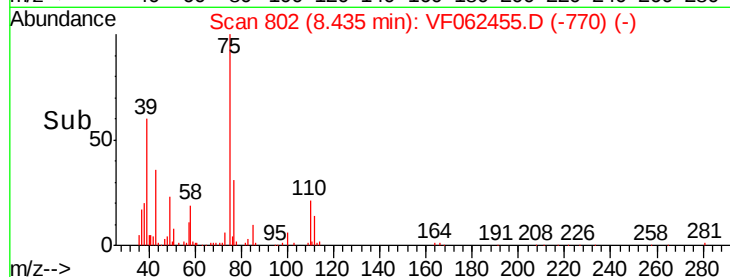
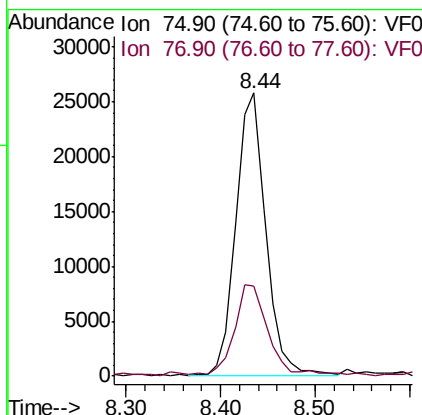
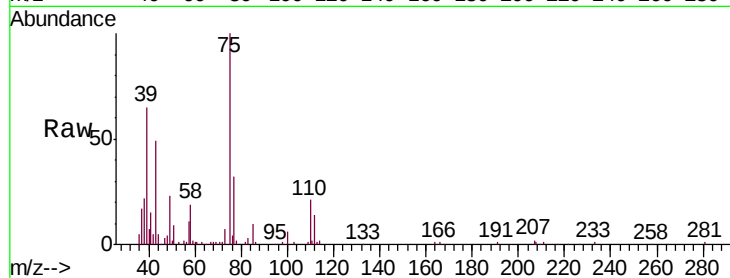
#53
t-1,3-Dichloropropene
Concen: 19.965 ug/l
RT: 8.44 min Scan# 802
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion: 75 Resp: 56899
Ion Ratio Lower Upper
75 100
77 31.0 25.4 38.0

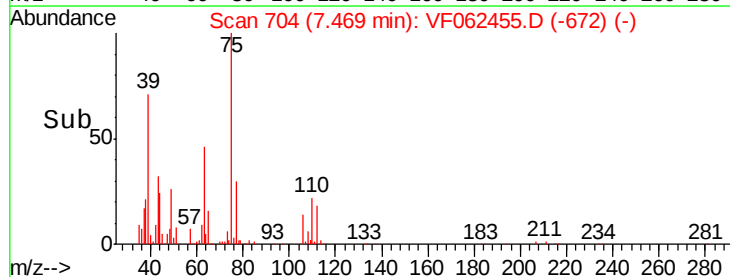
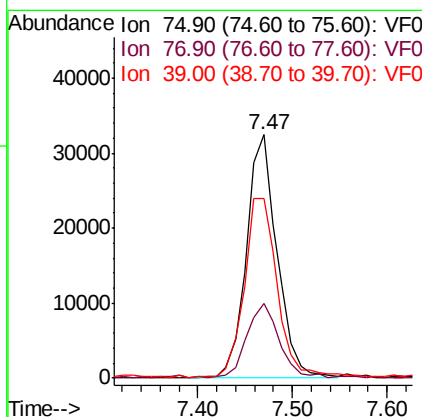
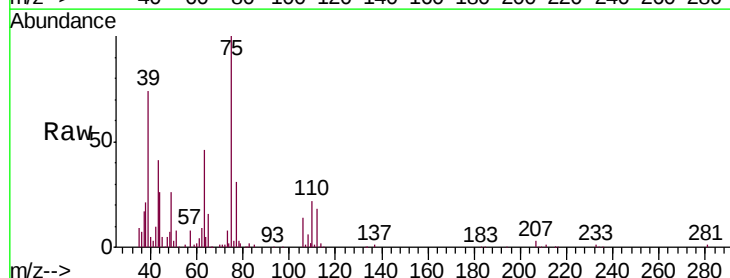
Manual Integrations
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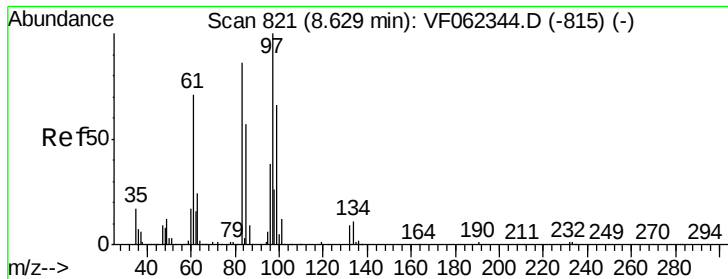
MMDadoda
5/12/2019 12:32:35 PM



#54
cis-1,3-Dichloropropene
Concen: 22.005 ug/l
RT: 7.47 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion: 75 Resp: 72984
Ion Ratio Lower Upper
75 100
77 30.6 24.0 36.0
39 73.7 58.7 88.1





#55

1,1,2-Trichloroethane

Concen: 21.844 ug/l

RT: 8.64 min Scan# 823

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

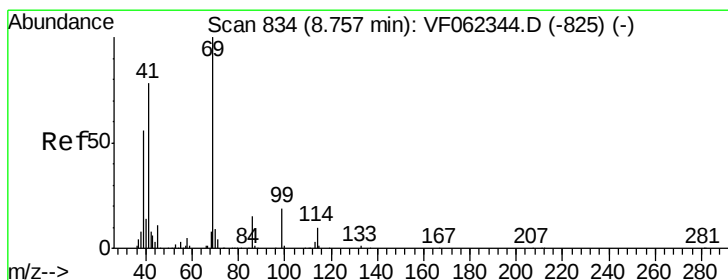
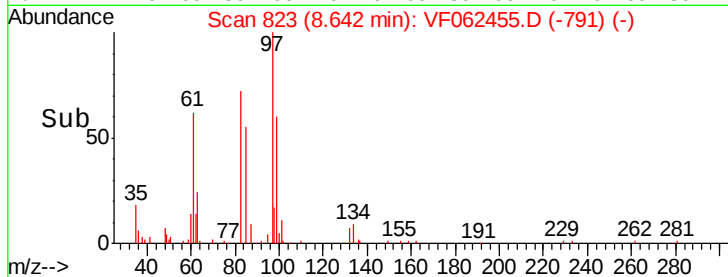
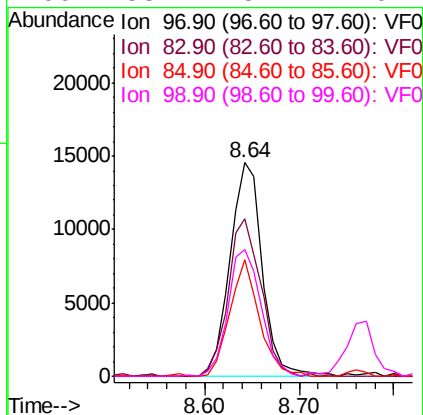
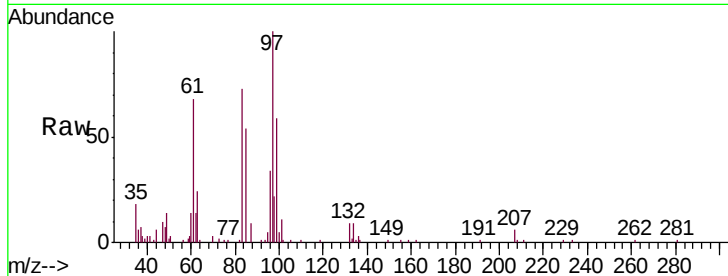
ClientSampleId :

VF0511SBSD01

Tgt Ion:	97	Resp:	34331
Ion	Ratio	Lower	Upper
97	100		
83	73.5	68.5	102.7
85	54.5	45.4	68.2
99	58.4	52.7	79.1

Manual Integrations
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#56

Ethyl methacrylate

Concen: 18.584 ug/l

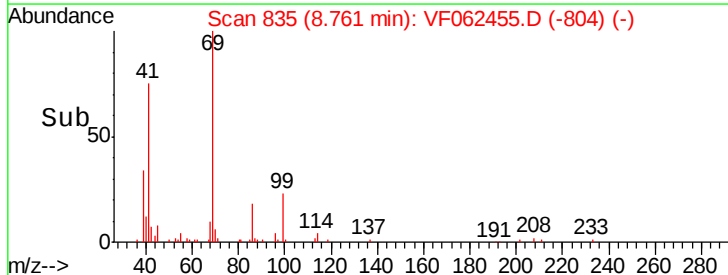
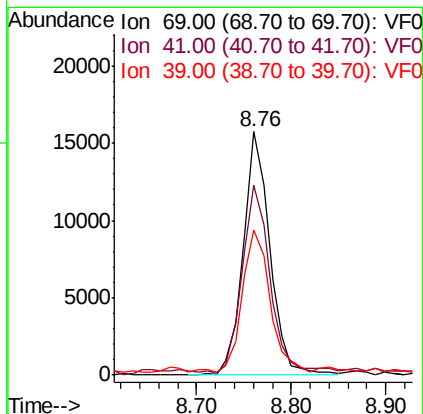
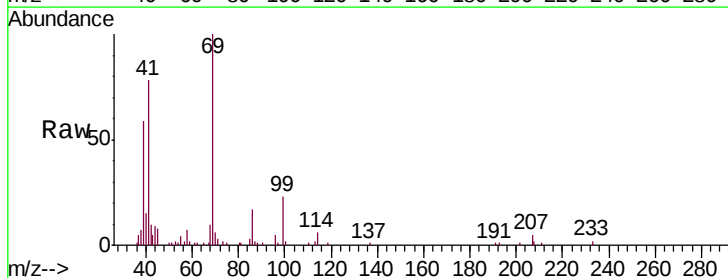
RT: 8.76 min Scan# 835

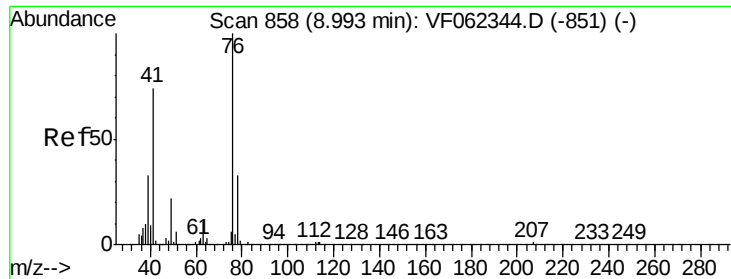
Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion:	69	Resp:	30831
Ion	Ratio	Lower	Upper
69	100		
41	79.5	66.3	99.5
39	59.3	50.1	75.1





#57

1,3-Dichloropropane

Concen: 23.444 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBSD01

Tgt Ion: 76 Resp: 55655

Ion Ratio Lower Upper

76 100

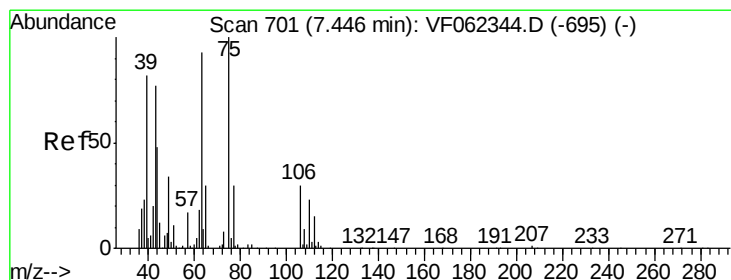
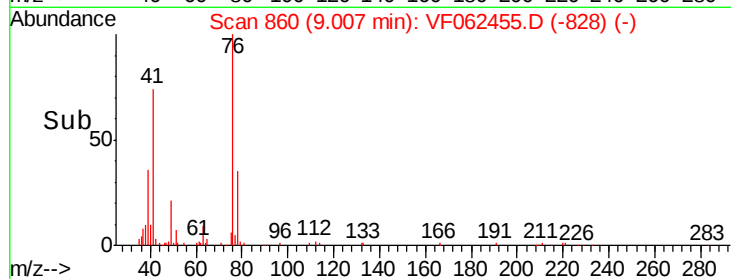
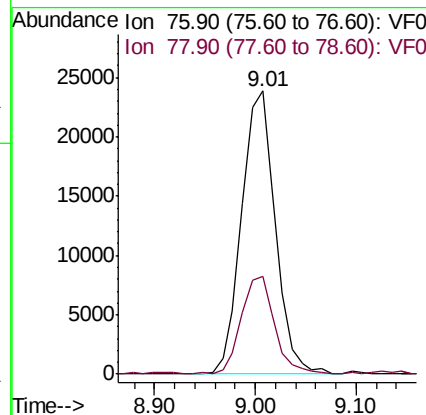
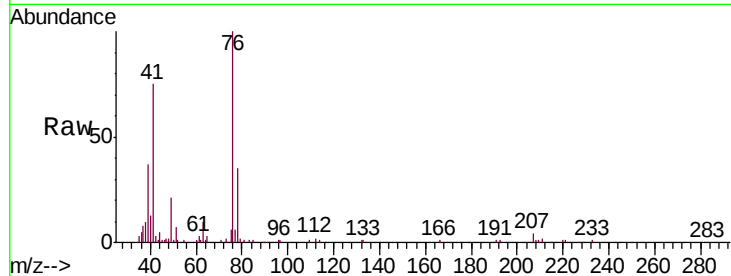
78 34.1 26.4 39.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 87.677 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF062455.D

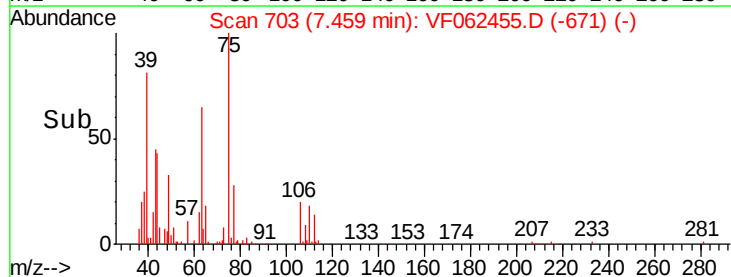
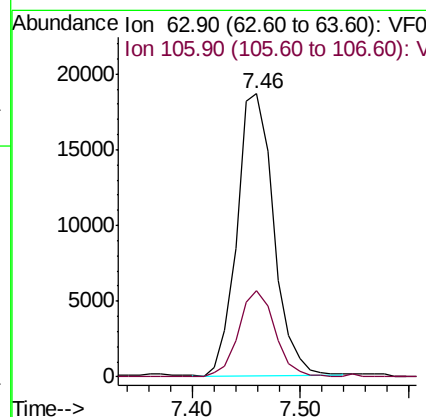
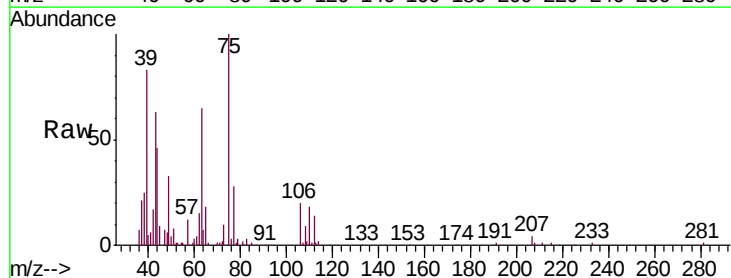
Acq: 11 May 2019 12:56

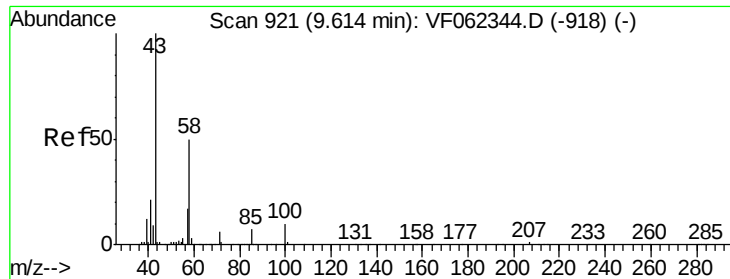
Tgt Ion: 63 Resp: 43731

Ion Ratio Lower Upper

63 100

106 30.5 25.8 38.8





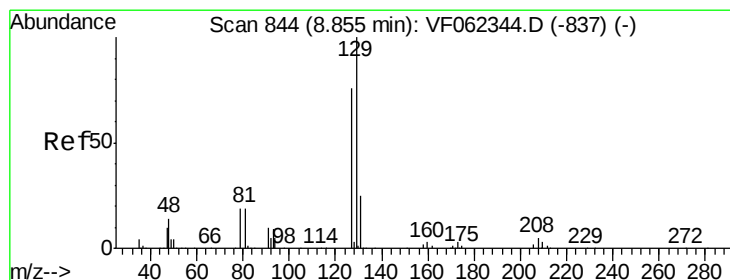
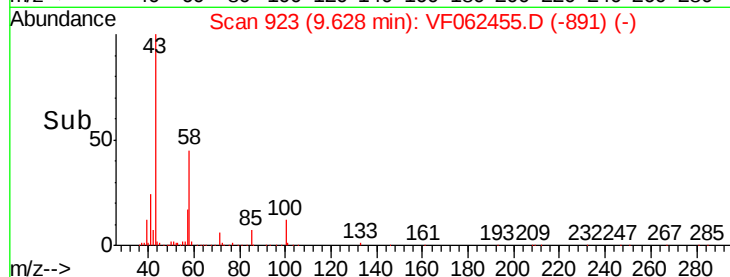
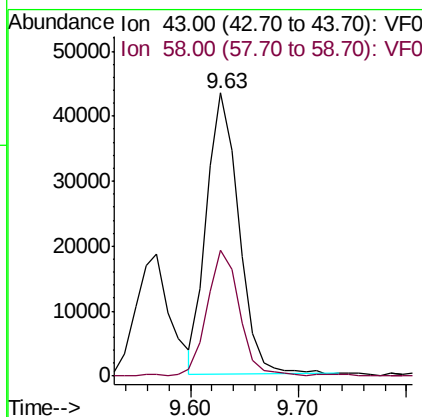
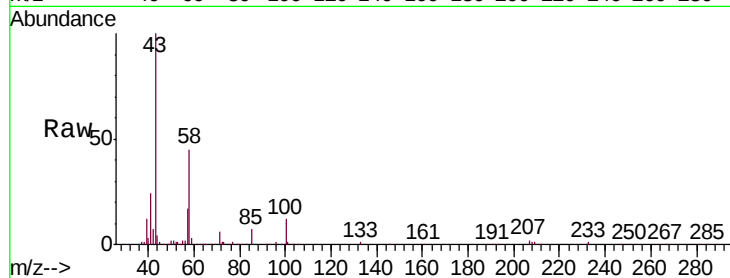
#59
2-Hexanone
Concen: 102.876 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Tgt Ion: 43 Resp: 89369
Ion Ratio Lower Upper
43 100
58 46.1 24.3 73.0

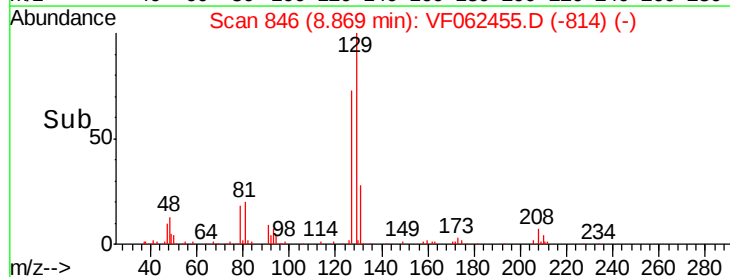
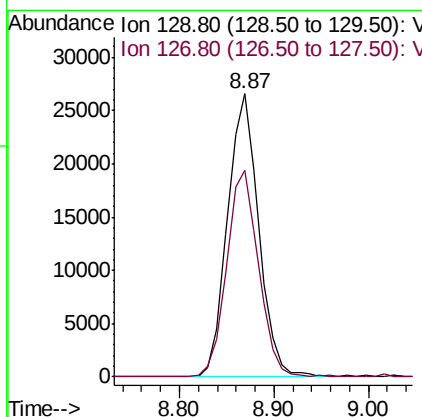
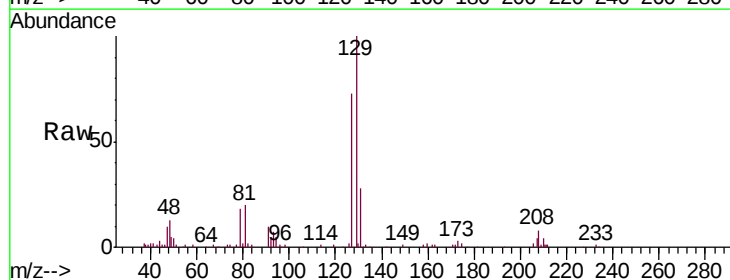
Manual Integrations
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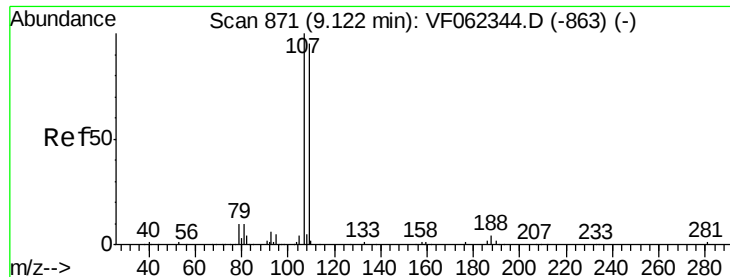
MMDadoda
5/12/2019 12:32:35 PM



#60
Dibromochloromethane
Concen: 23.513 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion: 129 Resp: 60440
Ion Ratio Lower Upper
129 100
127 74.5 38.5 115.3





#61

1,2-Dibromoethane

Concen: 22.167 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBSD01

Tgt Ion: 107 Resp: 40946

Ion Ratio Lower Upper

107 100

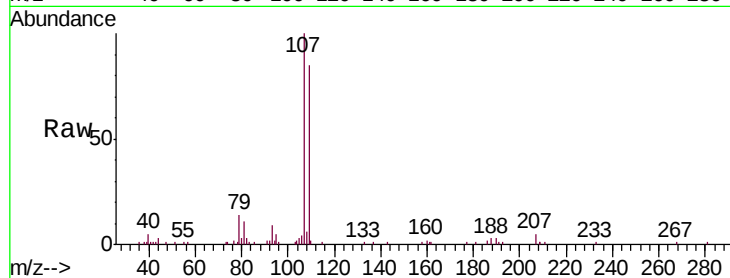
109 95.0 75.2 112.8

Manual Integrations

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5/12/2019 12:32:35 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.14

20000

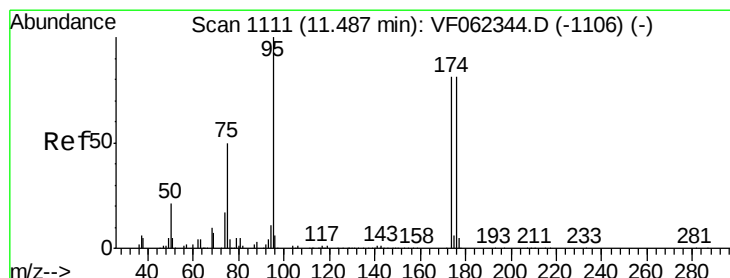
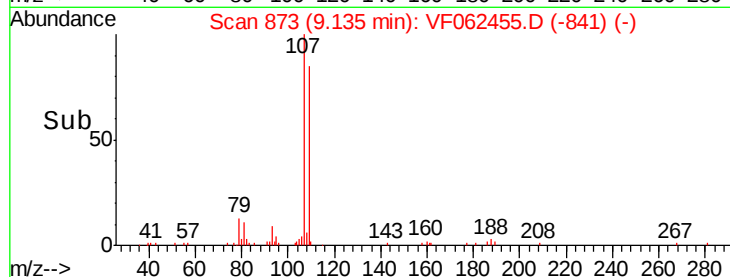
15000

10000

5000

0

Time--> 9.00 9.10 9.20 9.30



#62

4-Bromofluorobenzene

Concen: 51.903 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

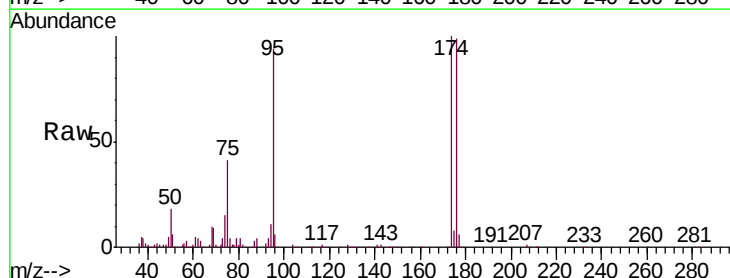
Tgt Ion: 95 Resp: 191582

Ion Ratio Lower Upper

95 100

174 98.1 0.0 191.8

176 96.1 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

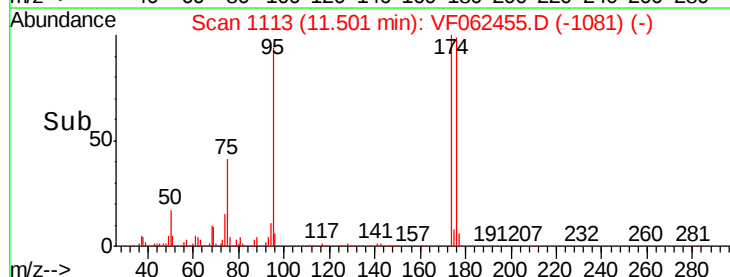
150000

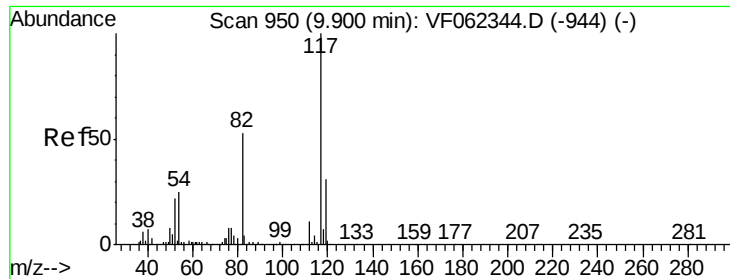
100000

50000

0

Time--> 11.40 11.50 11.60





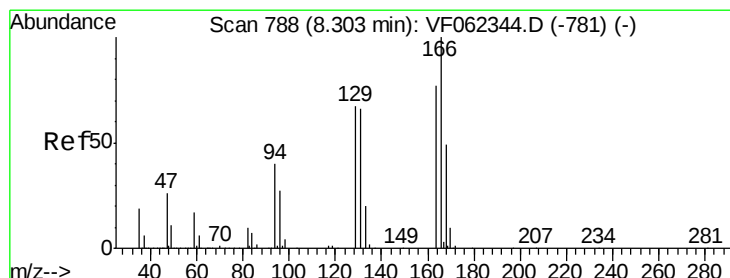
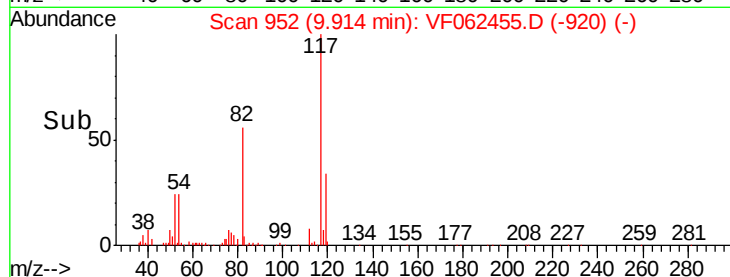
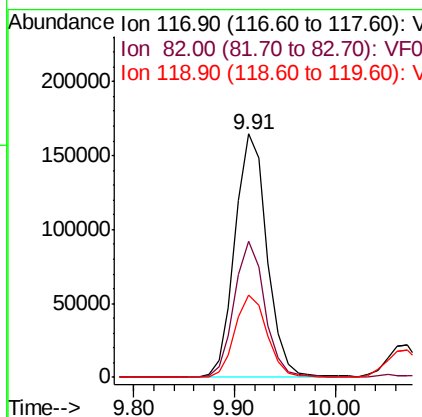
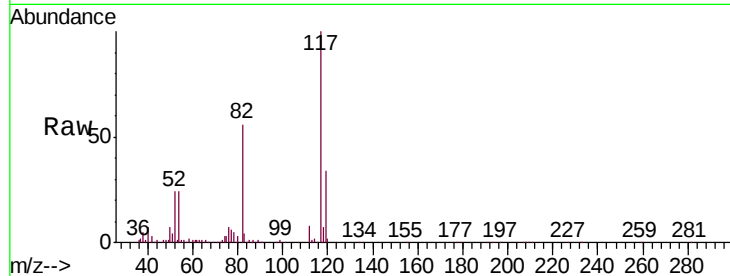
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	365290		
82	56.0	42.2	63.2	
119	33.8	25.0	37.4	

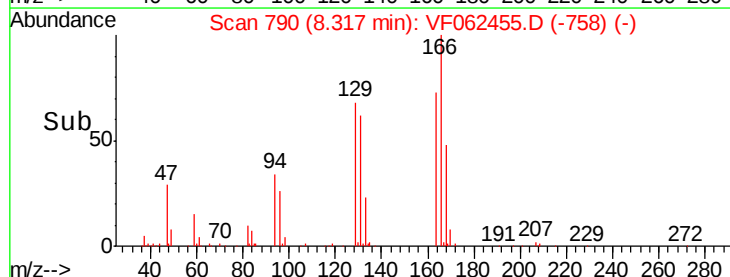
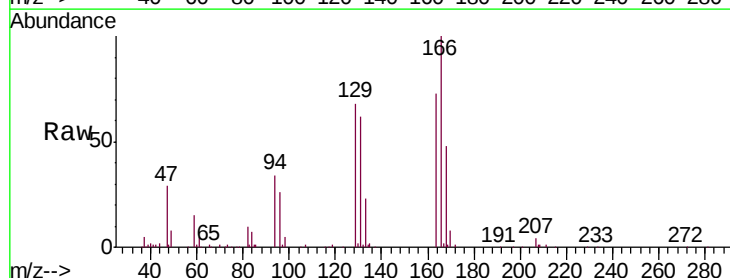
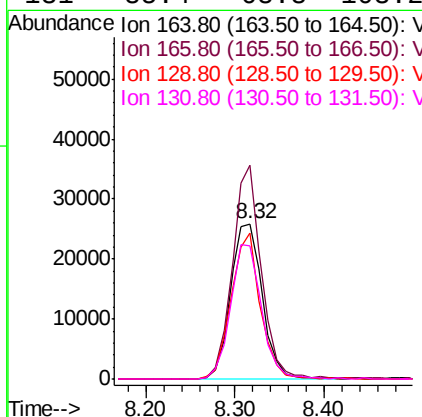
Manual Integrations
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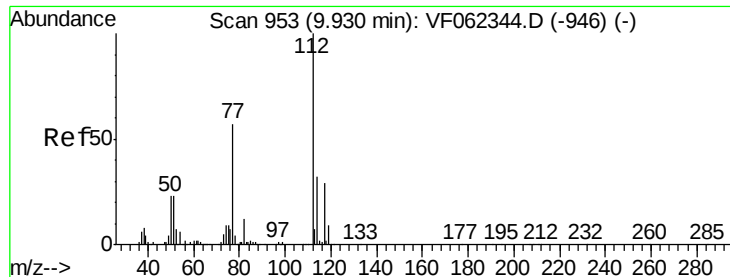
MMDadoda
5/12/2019 12:32:35 PM



#64
Tetrachloroethene
Concen: 21.610 ug/l
RT: 8.32 min Scan# 790
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	64084		
166	137.6	104.2	156.4	
129	94.2	69.6	104.4	
131	85.4	68.8	103.2	





#65

Chlorobenzene

Concen: 23.307 ug/l

RT: 9.94 min Scan# 955

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion:112 Resp: 140867

Ion Ratio Lower Upper

112 100

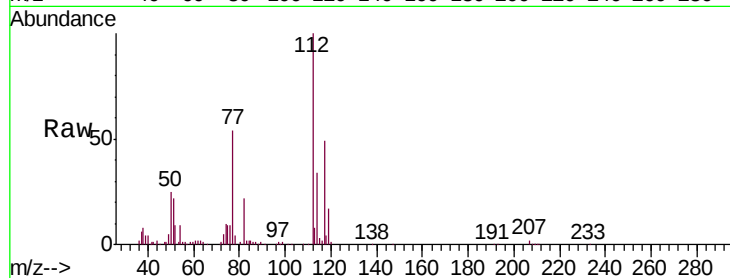
114 34.2 25.4 38.0

Manual Integrations

APPROVED

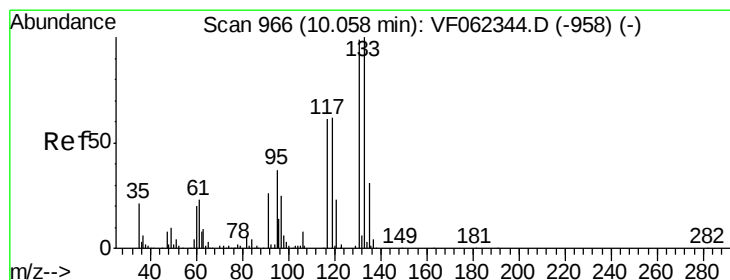
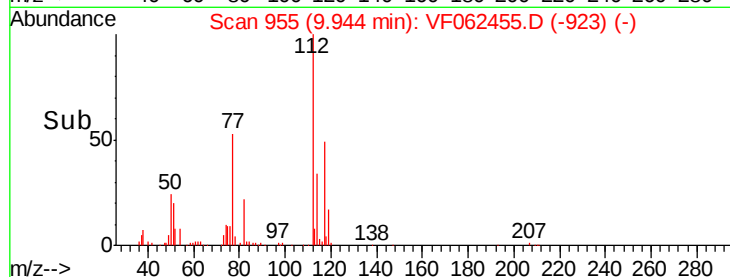
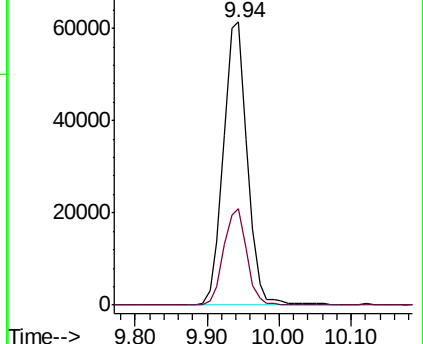
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 23.118 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

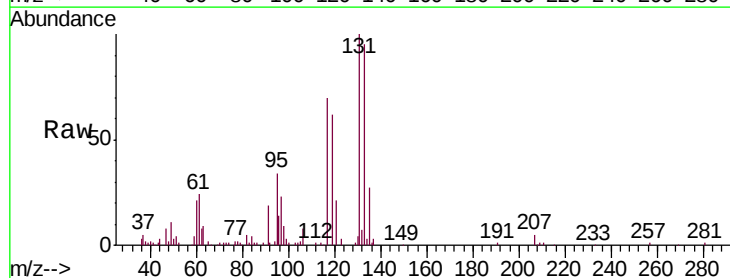
Tgt Ion:131 Resp: 70485

Ion Ratio Lower Upper

131 100

133 94.3 50.2 150.7

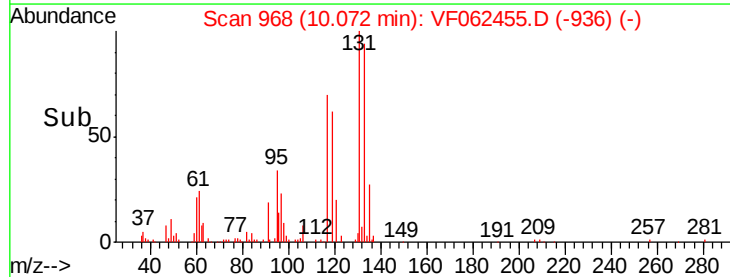
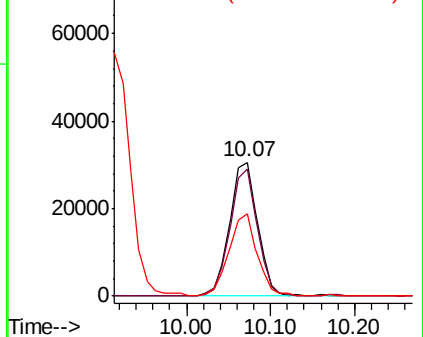
119 62.7 31.6 95.0

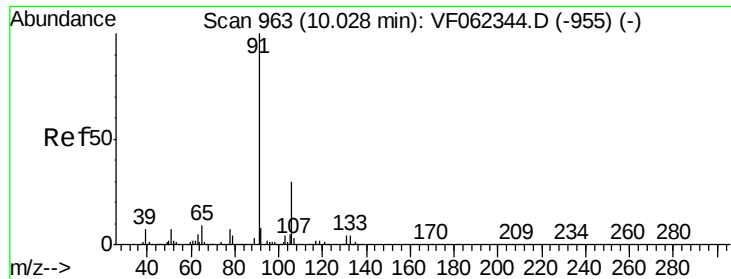


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





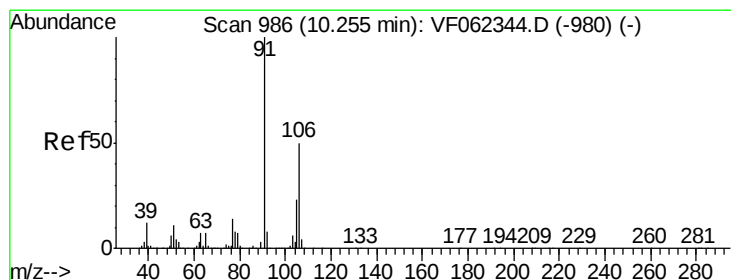
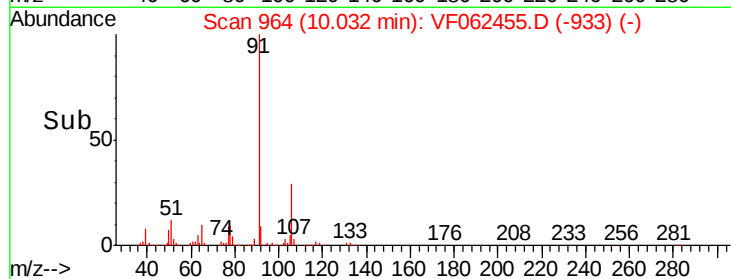
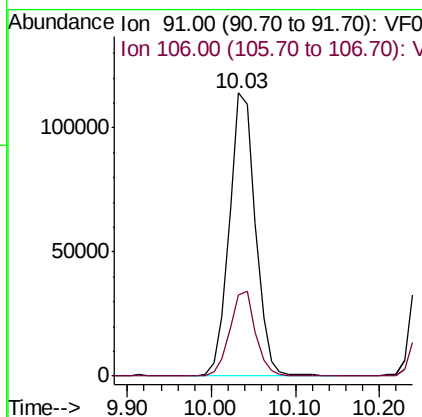
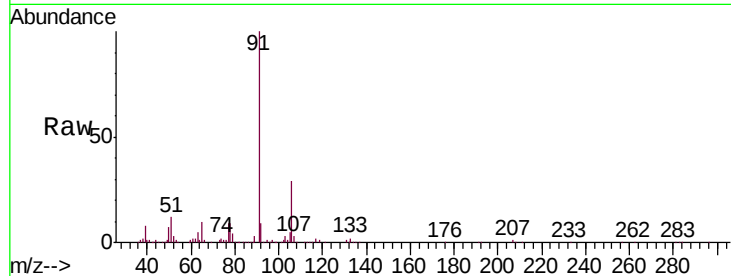
#67
Ethyl Benzene
Concen: 23.343 ug/l
RT: 10.03 min Scan# 964
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Tgt Ion: 91 Resp: 247052
Ion Ratio Lower Upper
91 100
106 28.8 24.1 36.1

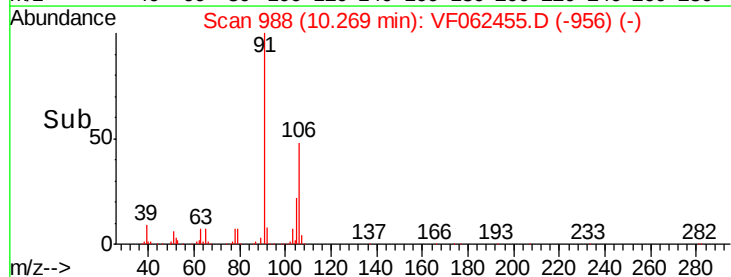
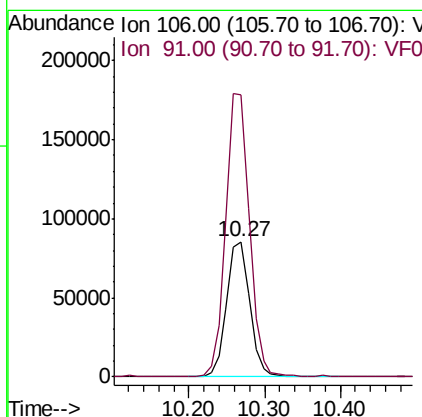
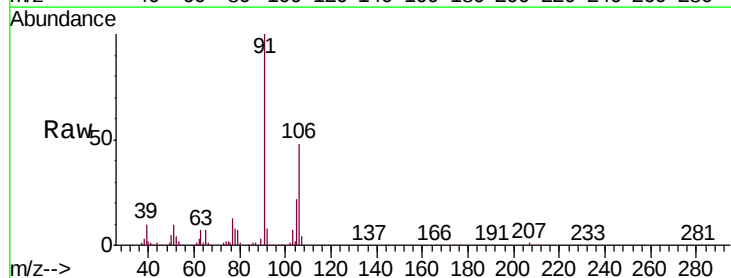
Manual Integrations
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#68
m/p-Xylenes
Concen: 46.615 ug/l
RT: 10.27 min Scan# 988
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion: 106 Resp: 182029
Ion Ratio Lower Upper
106 100
91 212.2 167.4 251.2





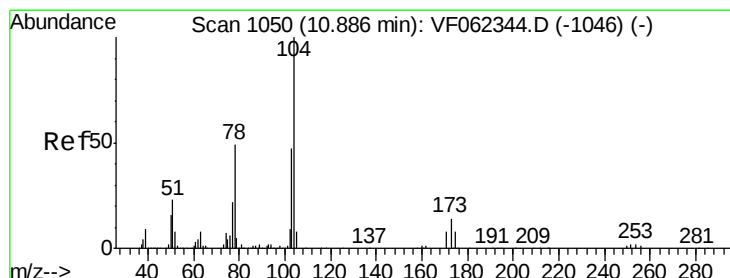
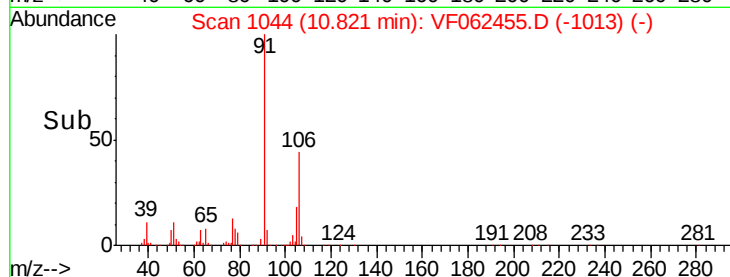
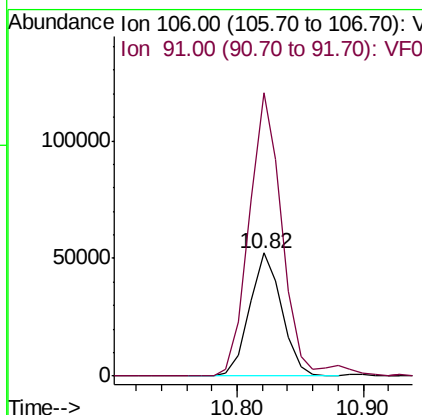
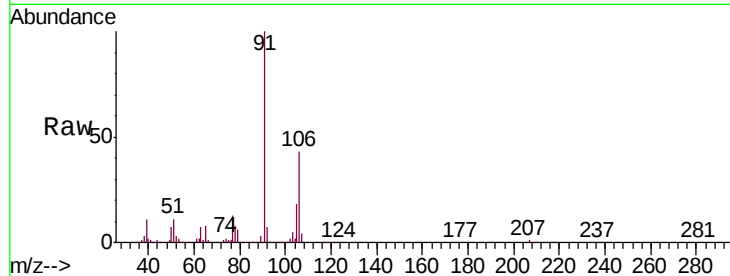
#69
o-Xylene
Concen: 22.007 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion:106 Resp: 92859
Ion Ratio Lower Upper
106 100
91 239.4 111.3 333.8

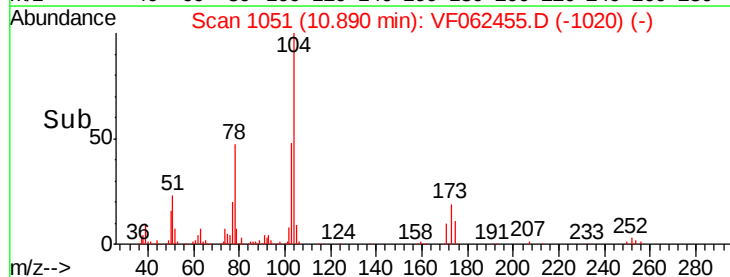
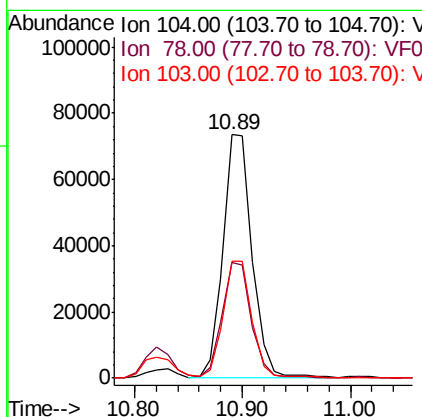
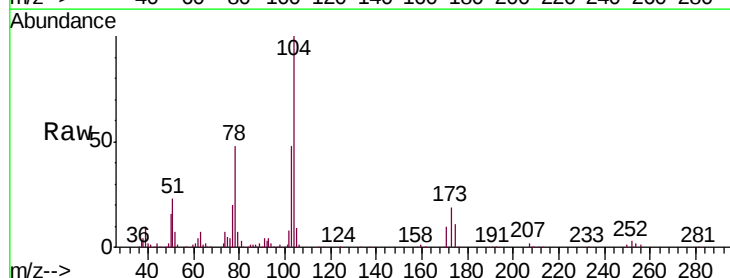
Manual Integrations
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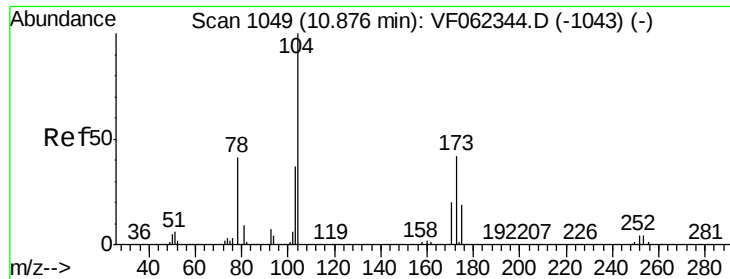
MMDadoda
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#70
Styrene
Concen: 21.613 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion:104 Resp: 136678
Ion Ratio Lower Upper
104 100
78 47.8 39.5 59.3
103 48.3 38.4 57.6





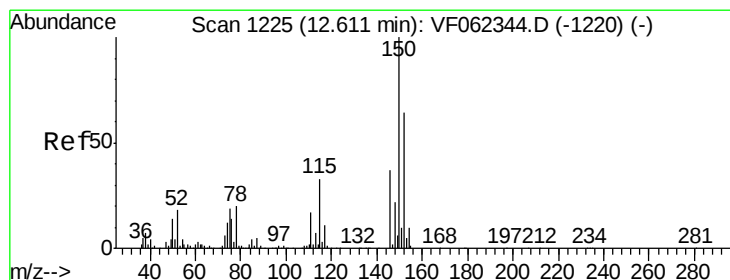
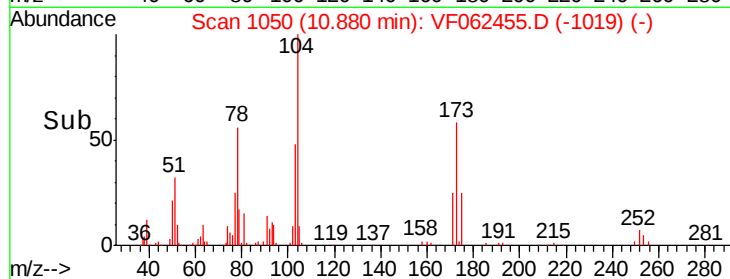
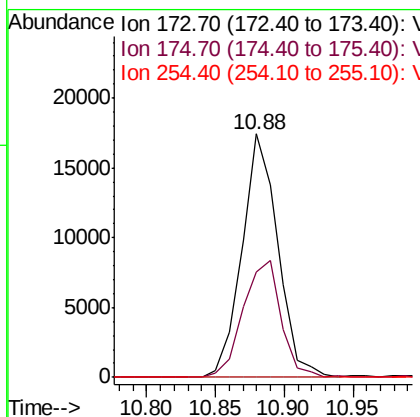
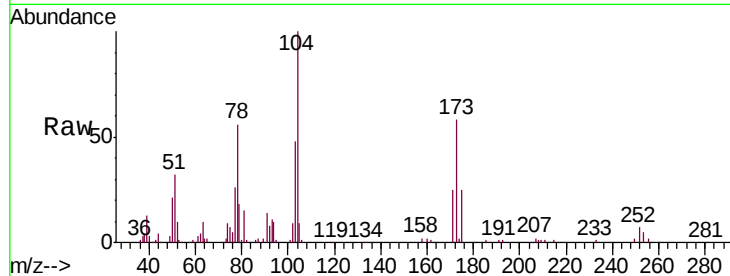
#71
Bromoform
Concen: 18.990 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.6	23.8	71.2
254	0.0	0.1	0.1#

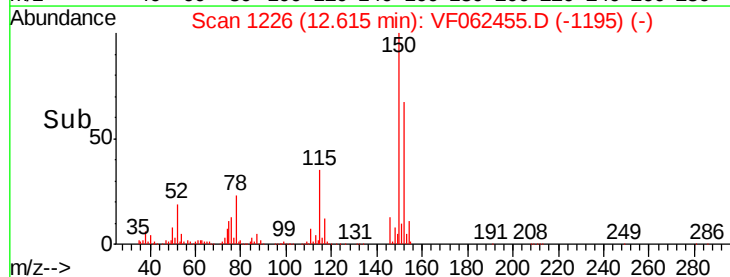
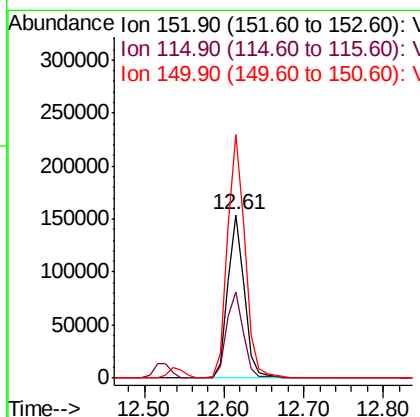
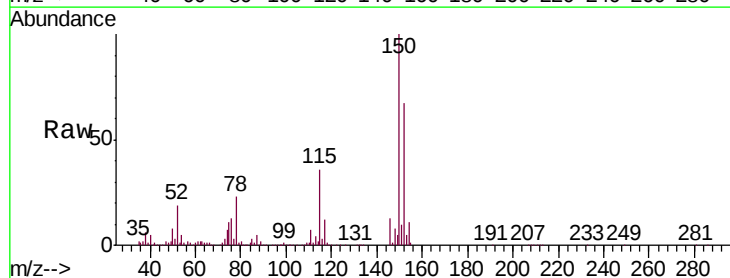
Manual Integrations
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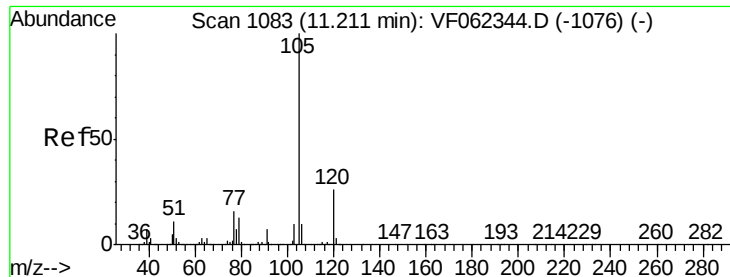
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	26.4	79.2
150	157.3	0.0	335.0





#73

Isopropylbenzene

Concen: 22.441 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 105 Resp: 302188

Ion Ratio Lower Upper

105 100

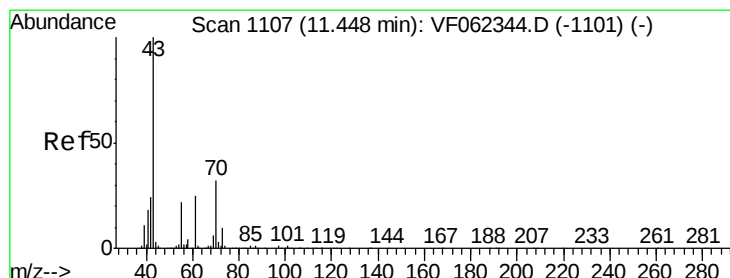
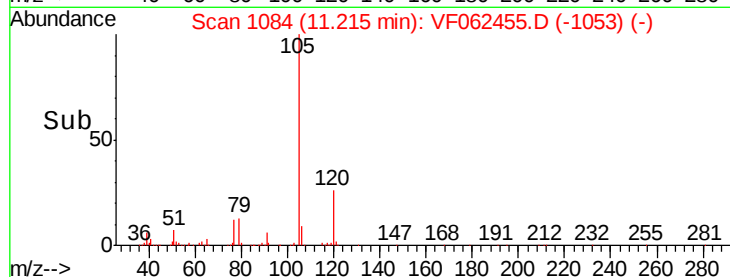
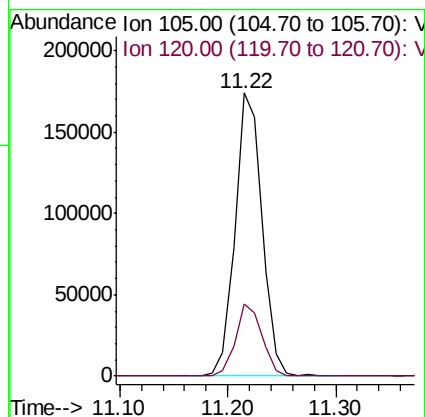
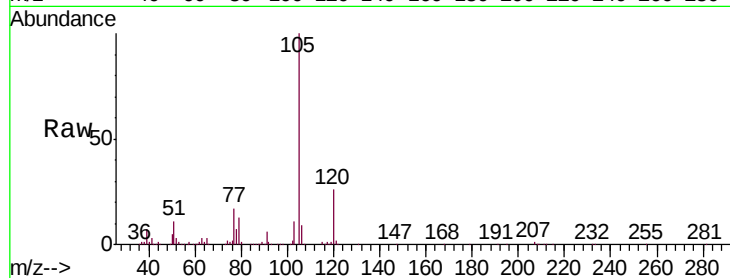
120 25.4 12.7 38.0

Manual Integrations

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#74

N-ethyl acetate

Concen: 20.822 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion: 43 Resp: 60196

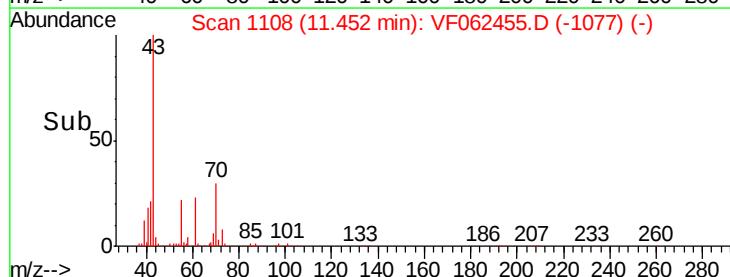
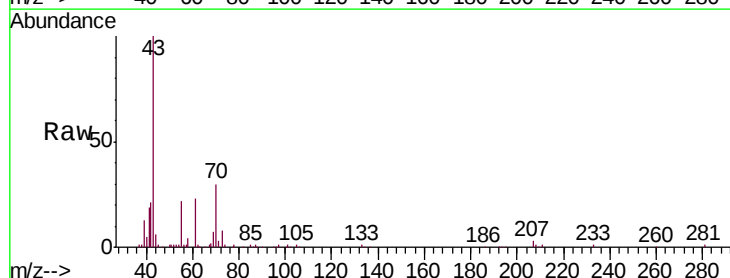
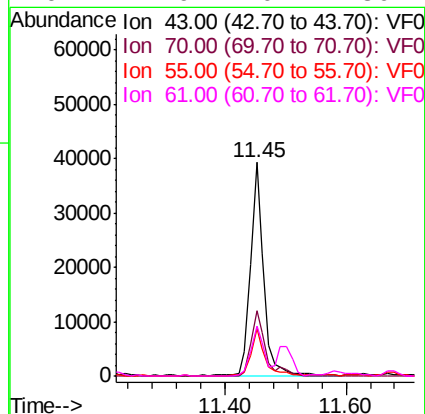
Ion Ratio Lower Upper

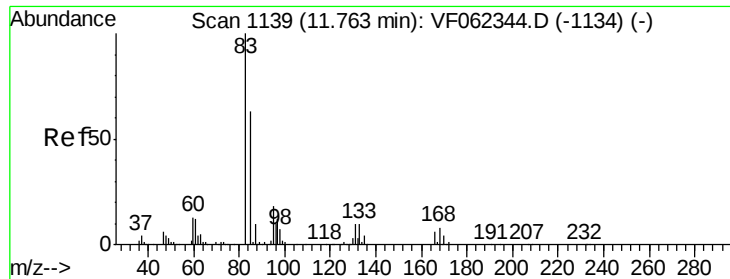
43 100

70 33.2 26.5 39.7

55 22.7 17.8 26.6

61 21.9 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 20.345 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

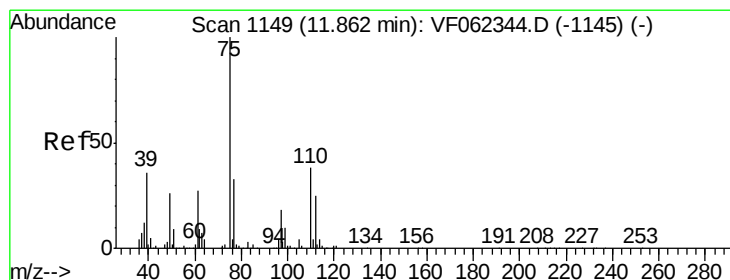
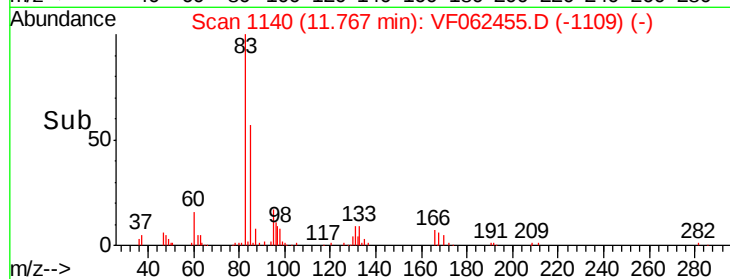
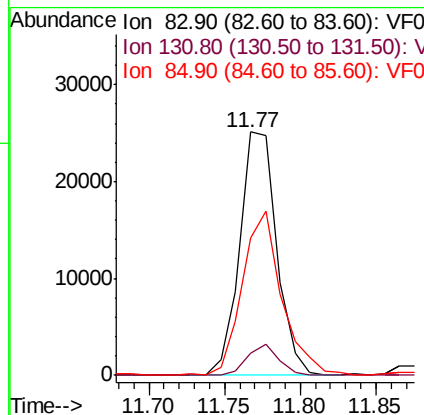
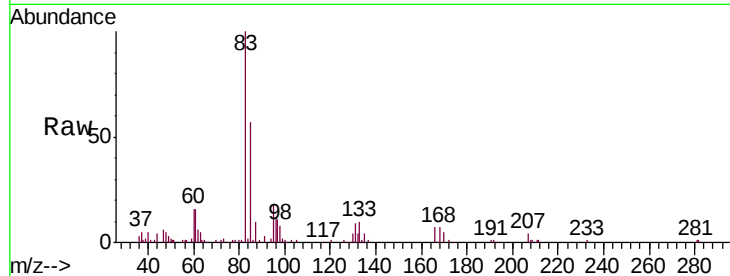
ClientSampleId :

VF0511SBS01

Tgt Ion:	83	Resp:	42897
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.8	17.4
85	72.3	35.3	105.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.086 ug/l

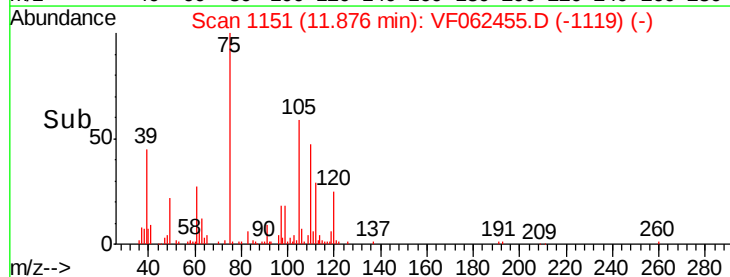
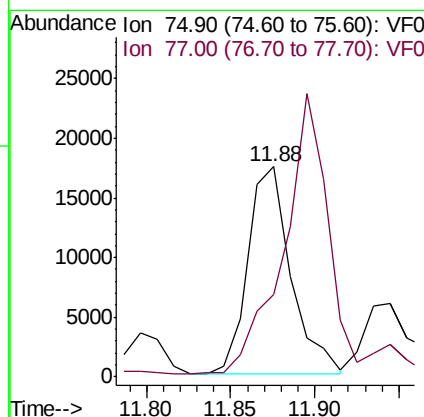
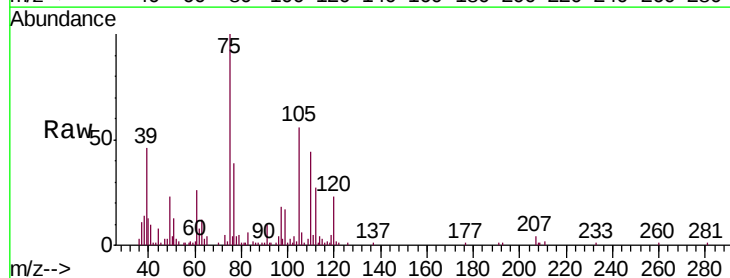
RT: 11.88 min Scan# 1151

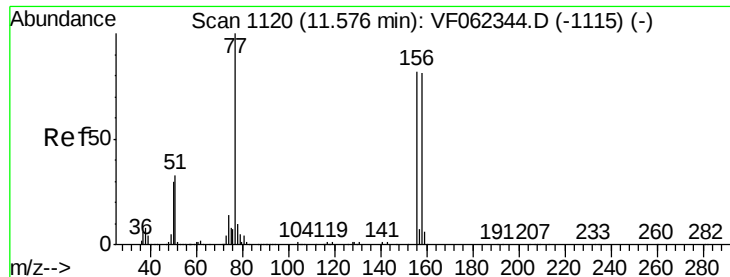
Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion:	75	Resp:	30702
Ion Ratio	Lower	Upper	
75	100		
77	140.6	0.0	0.0#





#77

Bromobenzene

Concen: 21.976 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

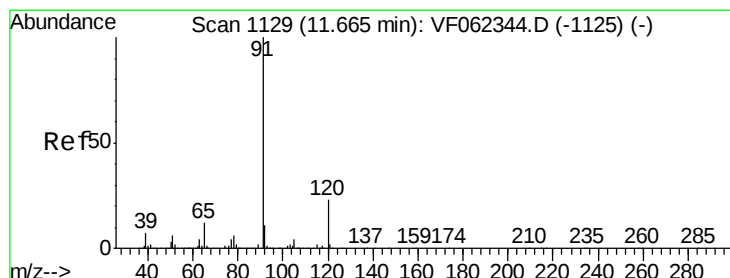
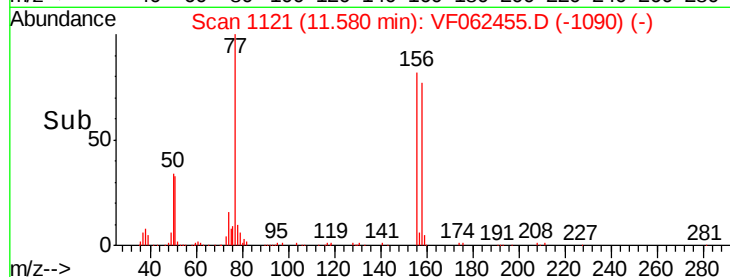
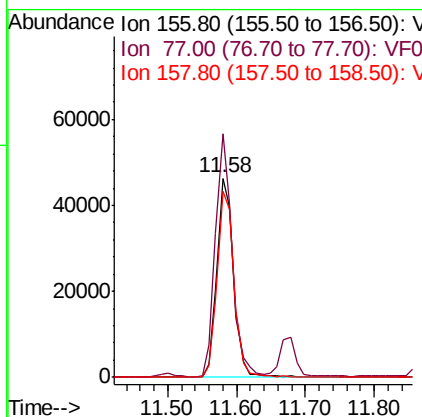
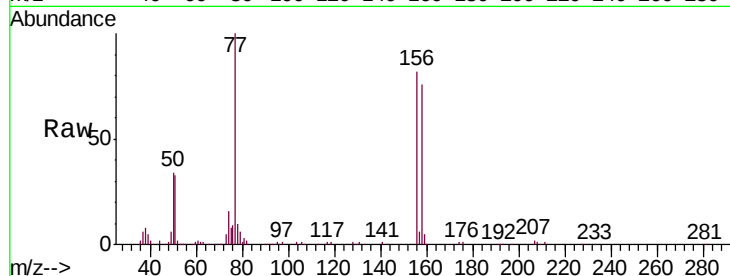
ClientSampleId :

VF0511SBSD01

Tgt Ion:	156	Resp:	77664
Ion Ratio	Lower	Upper	
156	100		
77	121.9	64.8	194.3
158	95.6	49.1	147.3

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#78

n-propylbenzene

Concen: 22.442 ug/l

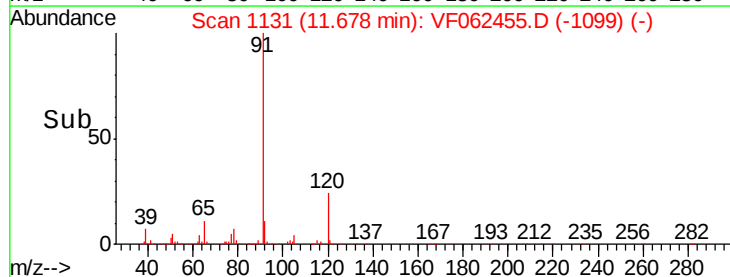
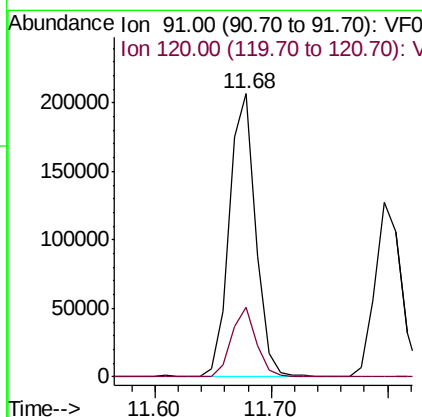
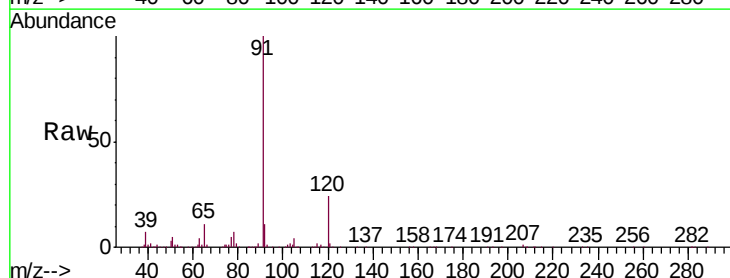
RT: 11.68 min Scan# 1131

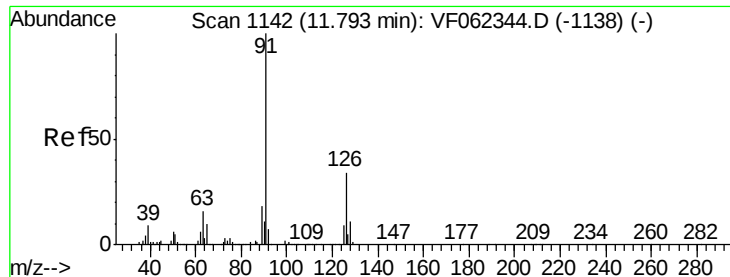
Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion:	91	Resp:	321741
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.9	35.5





#79

2-Chlorotoluene

Concen: 22.184 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion: 91 Resp: 197766

Ion Ratio Lower Upper

91 100

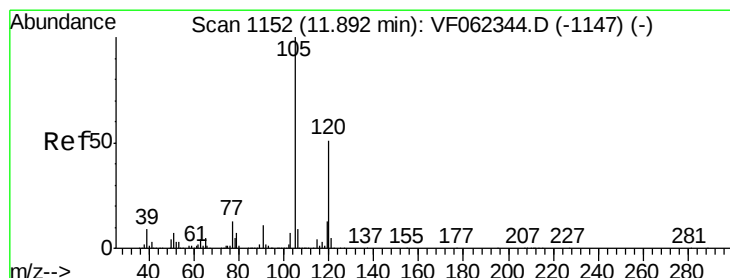
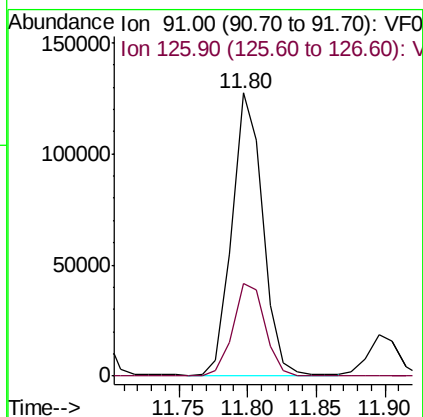
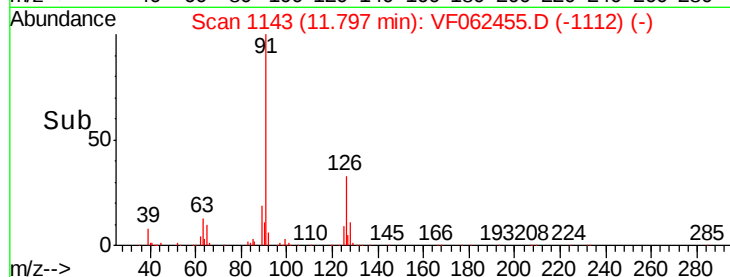
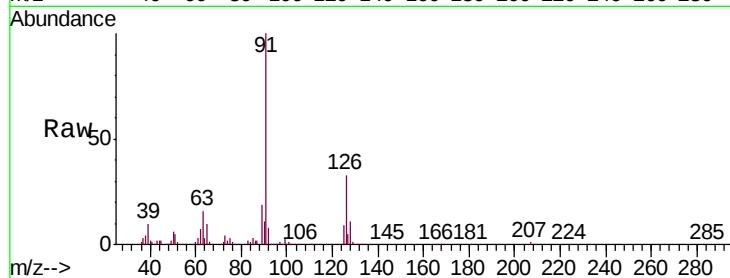
126 34.8 17.8 53.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.804 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062455.D

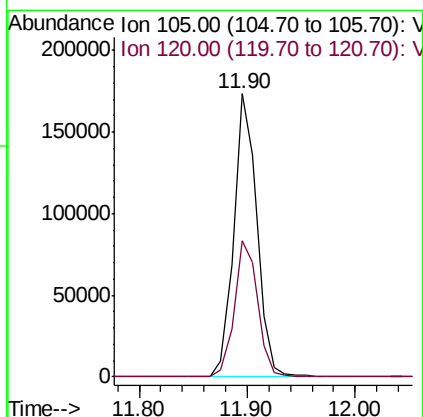
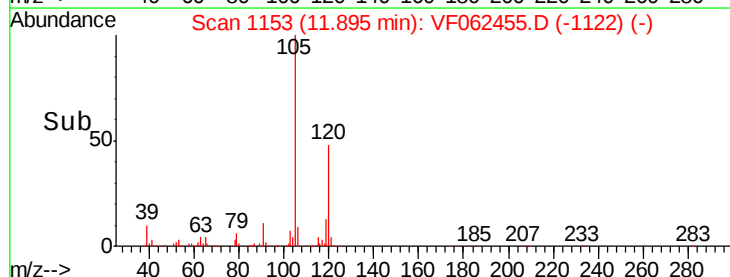
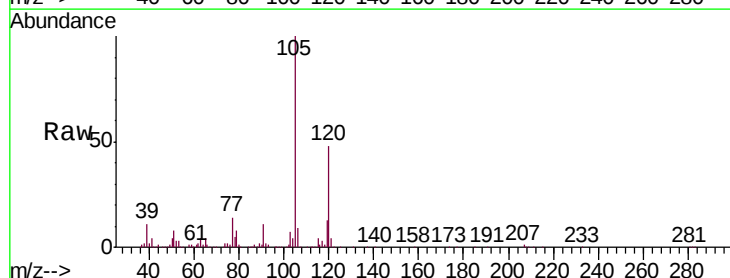
Acq: 11 May 2019 12:56

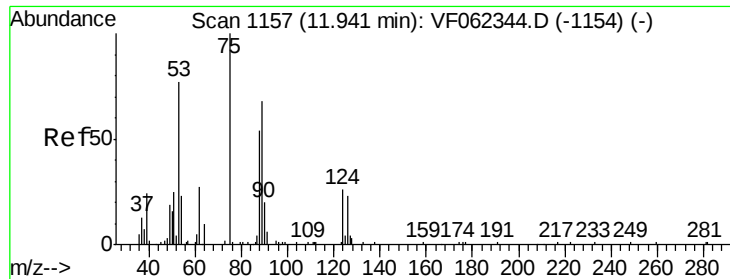
Tgt Ion: 105 Resp: 257350

Ion Ratio Lower Upper

105 100

120 48.5 24.6 74.0





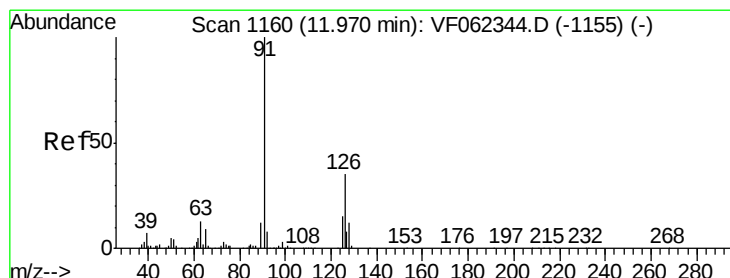
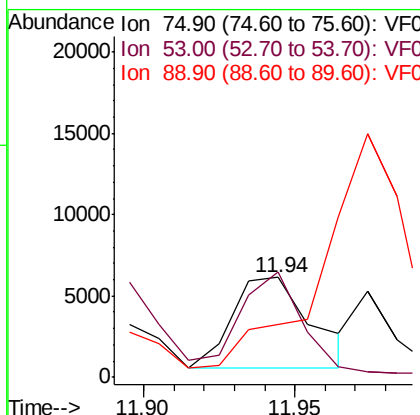
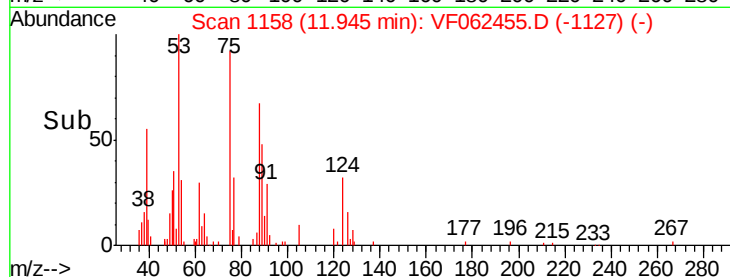
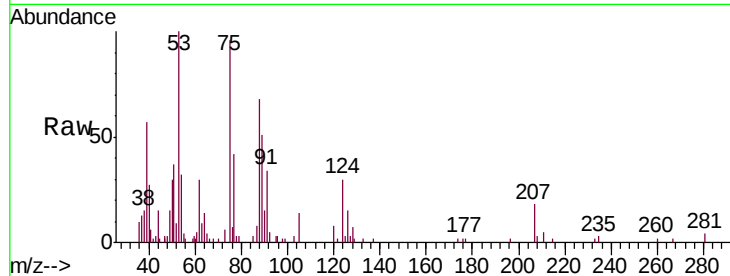
#81
trans-1,4-Dichloro-2-butene
Concen: 16.920 ug/l
RT: 11.94 min Scan# 1158
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBSD01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	99.6	71.9	107.9
89	0.0	0.0	0.0

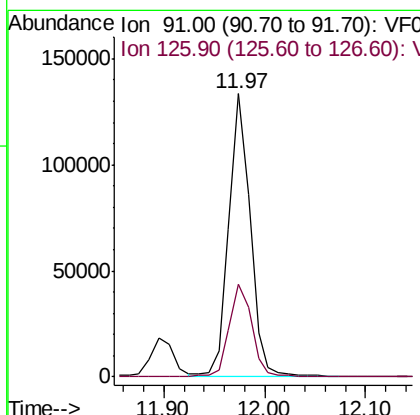
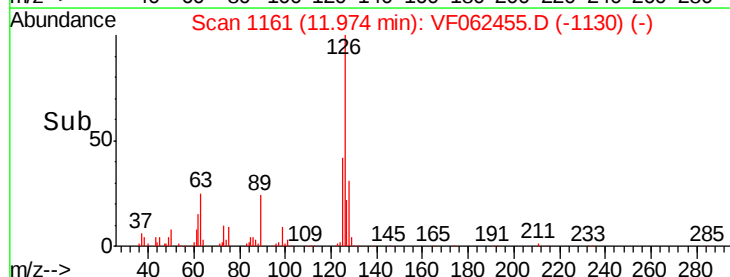
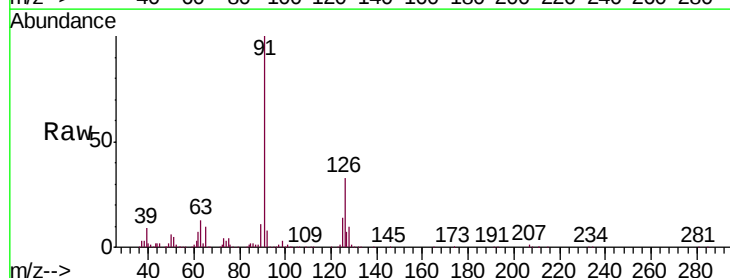
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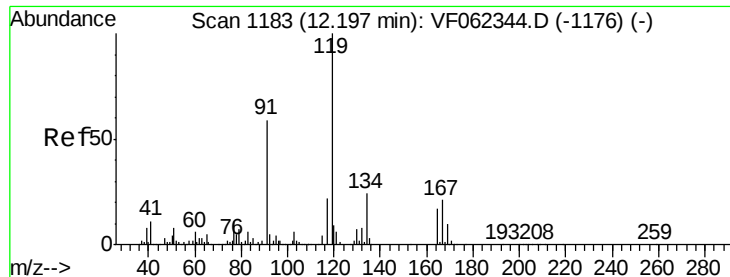
MMDadoda
5/12/2019 12:32:35 PM



#82
4-Chlorotoluene
Concen: 22.160 ug/l
RT: 11.97 min Scan# 1161
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.7	53.1





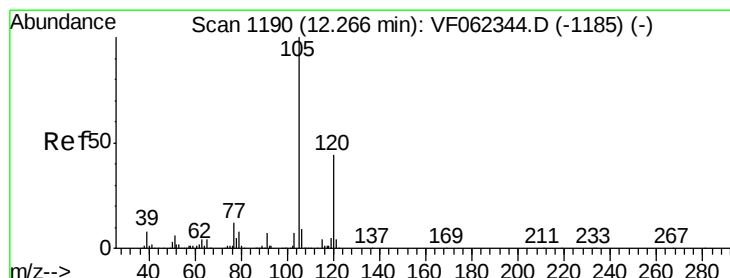
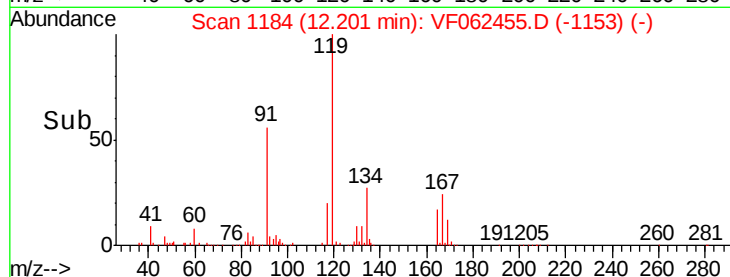
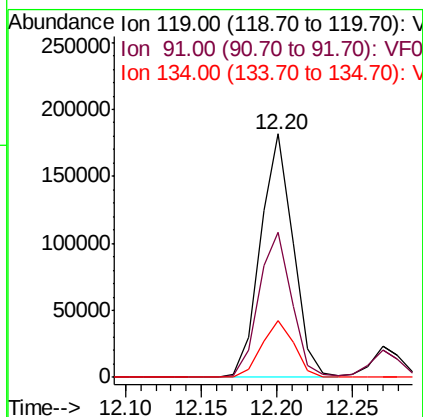
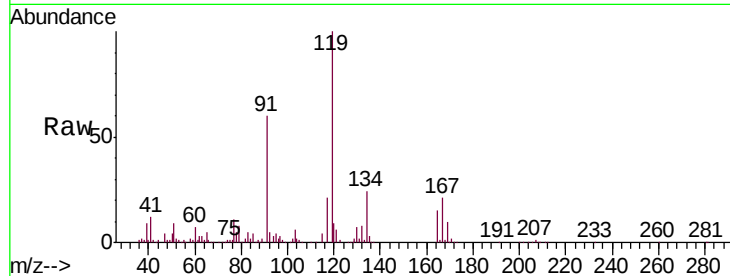
#83
 tert-Butylbenzene
 Concen: 22.098 ug/l
 RT: 12.20 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	274101		
91	60.0	30.4	91.3	
134	23.4	11.9	35.7	

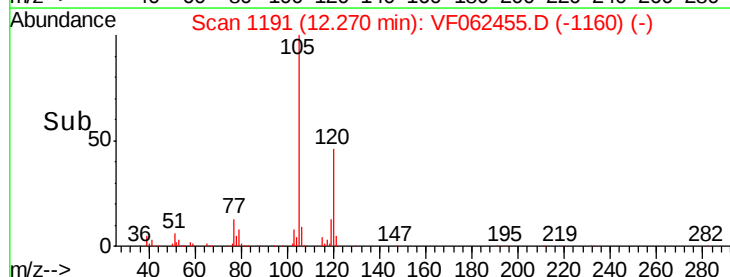
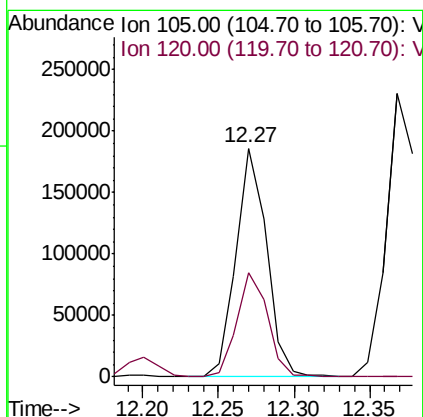
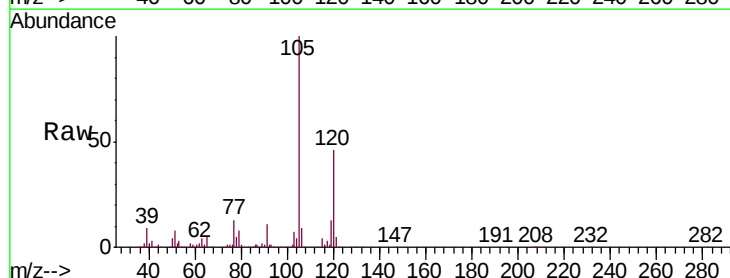
Manual Integrations
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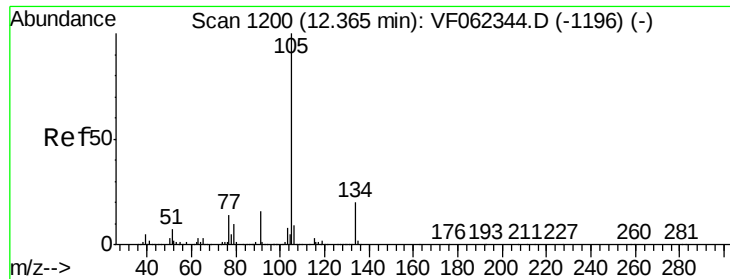
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.621 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	261282		
120	45.8	22.6	67.7	





#85

sec-Butylbenzene

Concen: 22.357 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBS01

Tgt Ion:105 Resp: 337552

Ion Ratio Lower Upper

105 100

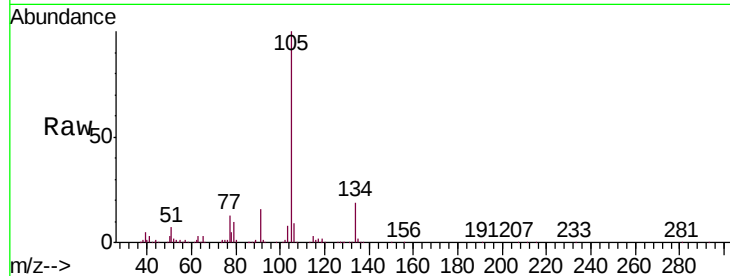
134 19.8 9.8 29.5

Manual Integrations

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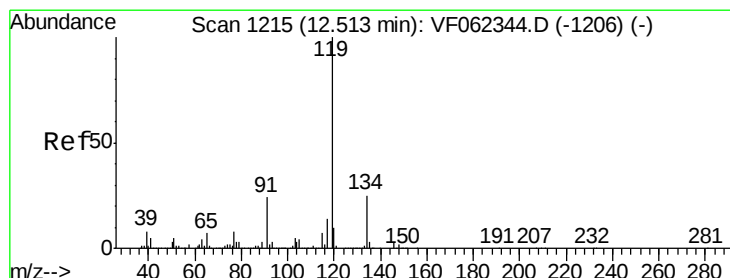
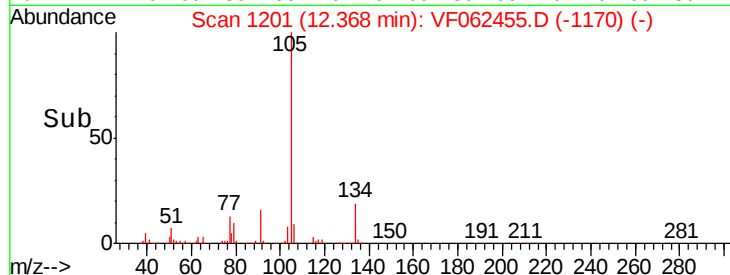
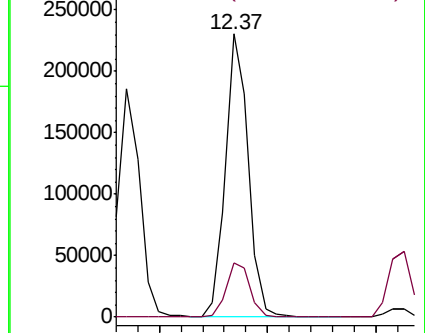
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.399 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

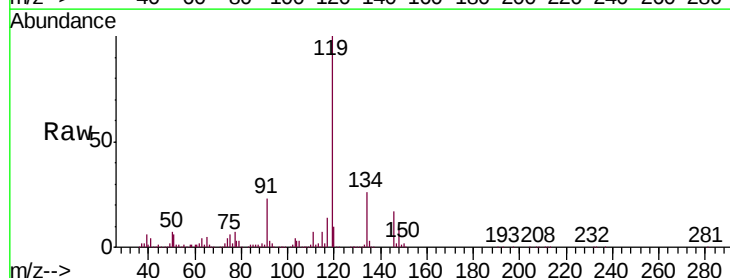
Tgt Ion:119 Resp: 314201

Ion Ratio Lower Upper

119 100

134 25.4 12.9 38.7

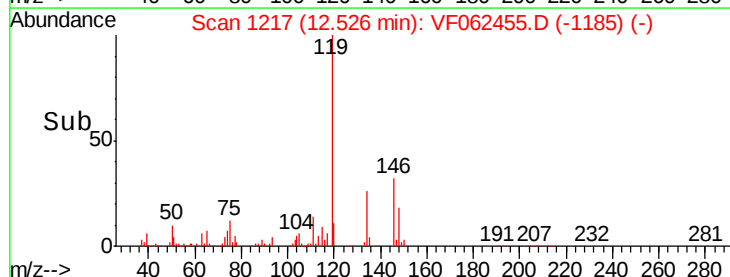
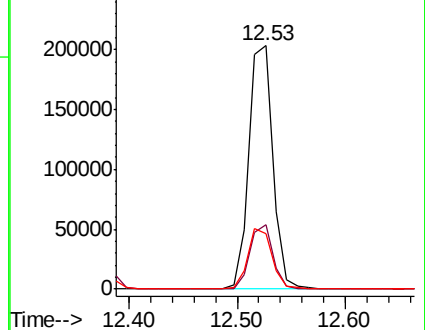
91 24.8 12.3 36.8

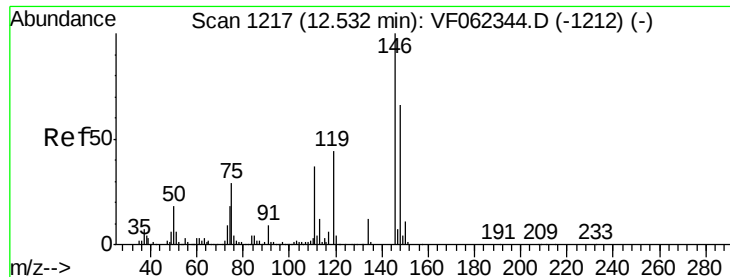


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





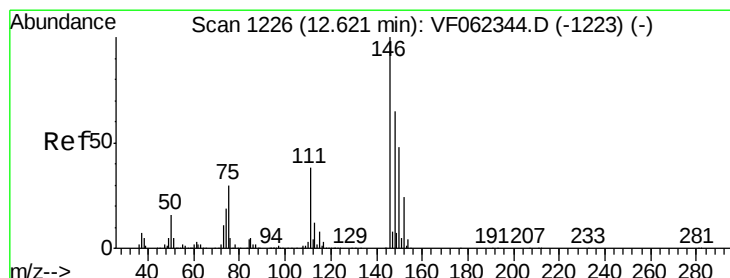
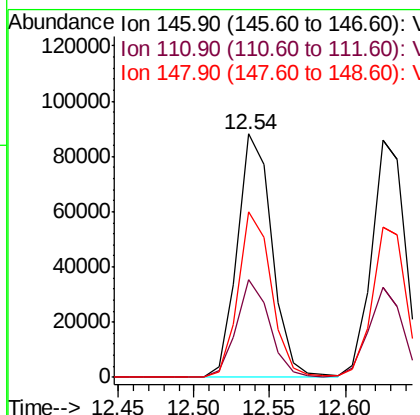
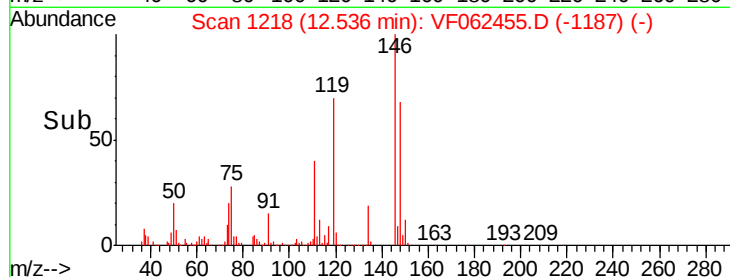
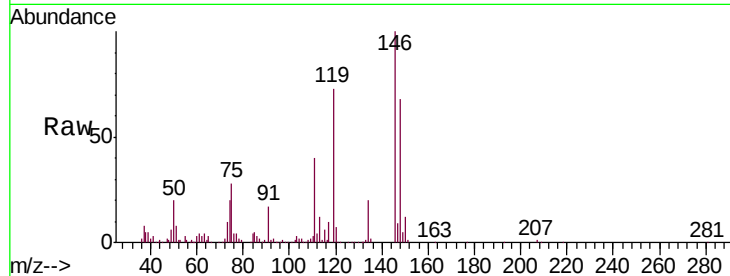
#87
 1,3-Dichlorobenzene
 Concen: 21.831 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.3	54.8
148	65.2	32.3	96.9

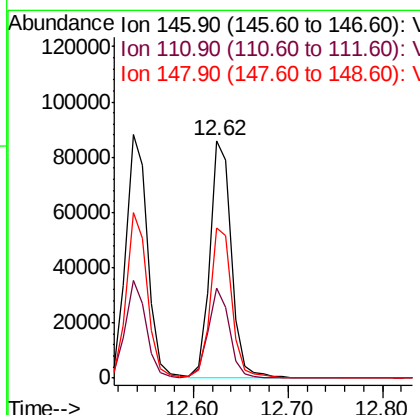
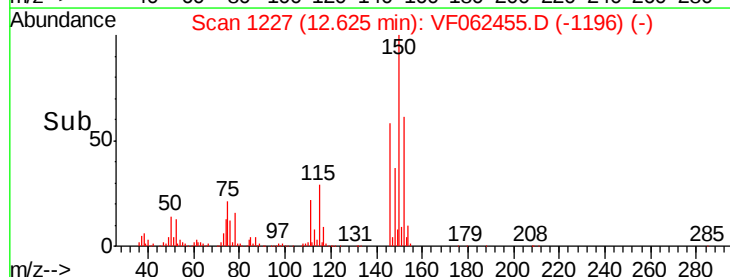
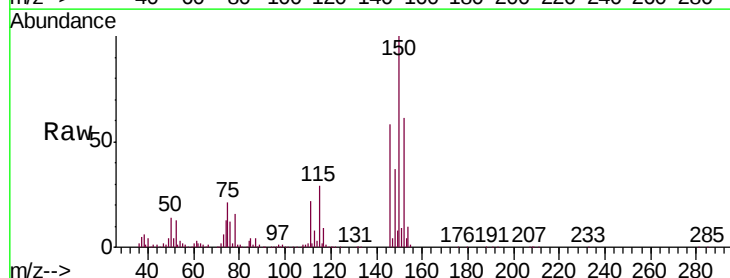
Manual Integrations
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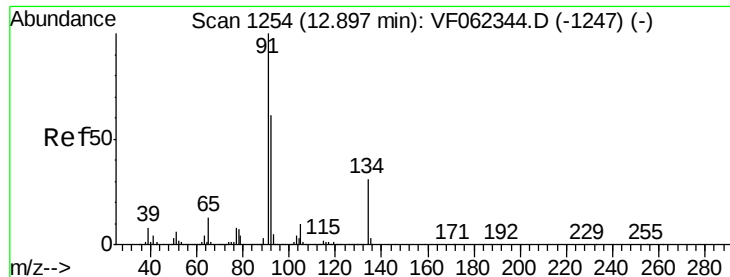
MMDadoda
 5/12/2019 12:32:35 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.873 ug/l
 RT: 12.62 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.8	56.3
148	64.1	32.2	96.6





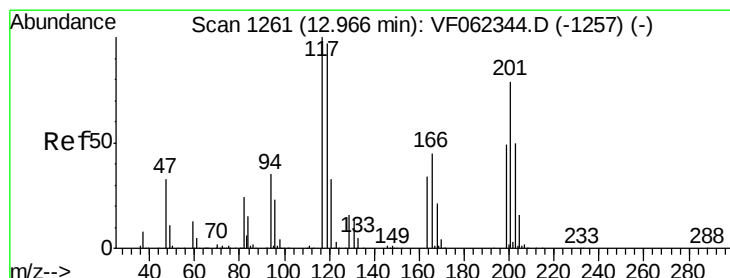
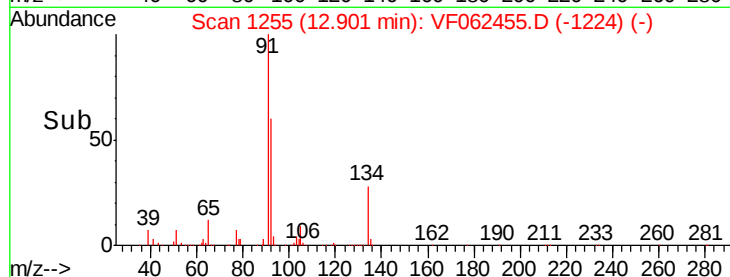
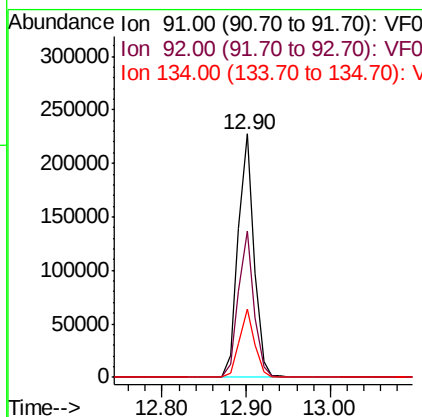
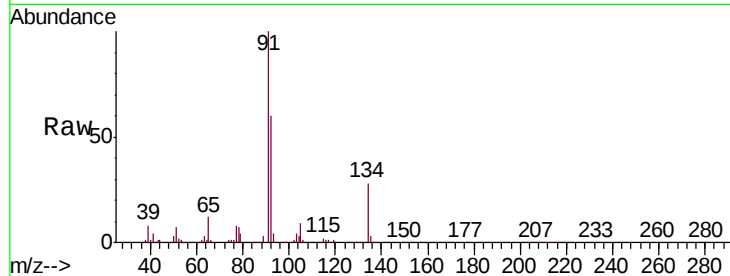
#89
n-Butylbenzene
Concen: 23.978 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	299245		
92	59.2	30.0	90.0	
134	27.1	14.1	42.4	

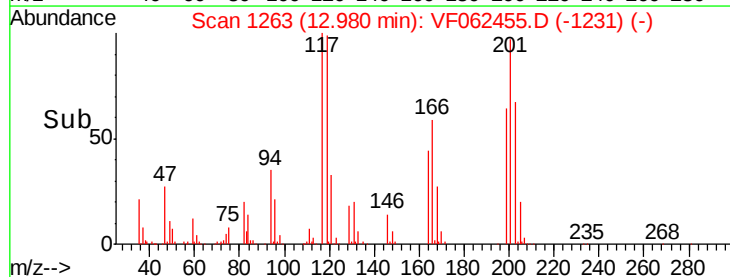
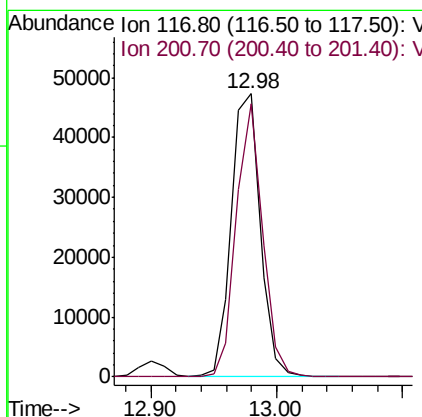
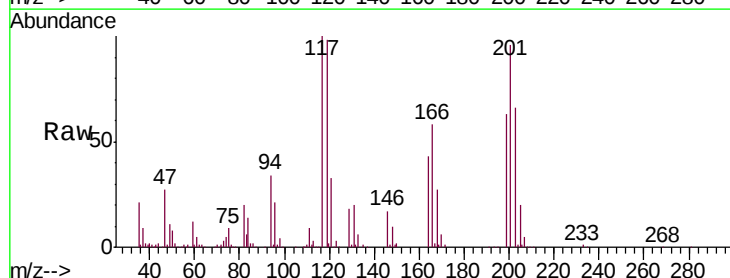
Manual Integrations
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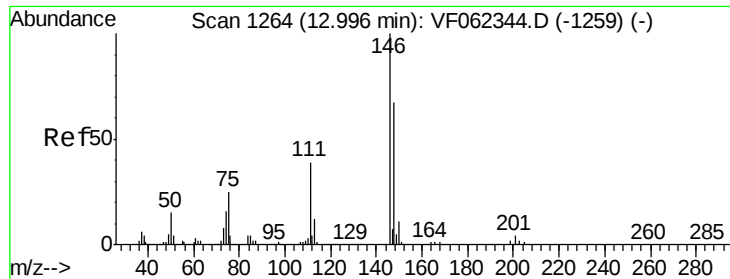
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#90
Hexachloroethane
Concen: 21.469 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	75196		
201	87.5	46.2	138.5	





#91

1,2-Dichlorobenzene

Concen: 23.187 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Instrument :

MSVOA_F

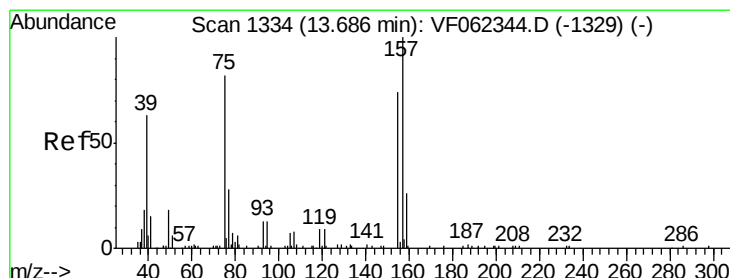
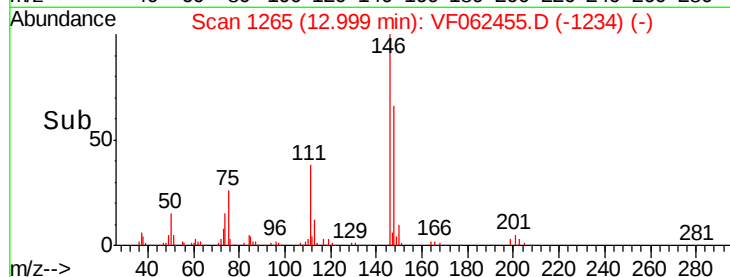
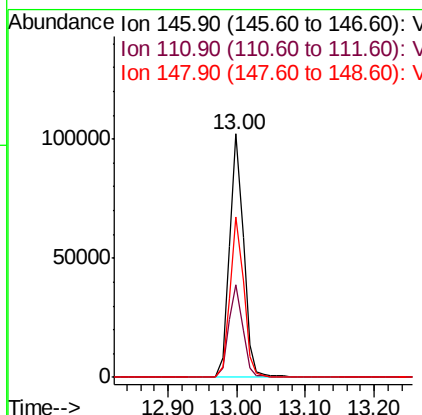
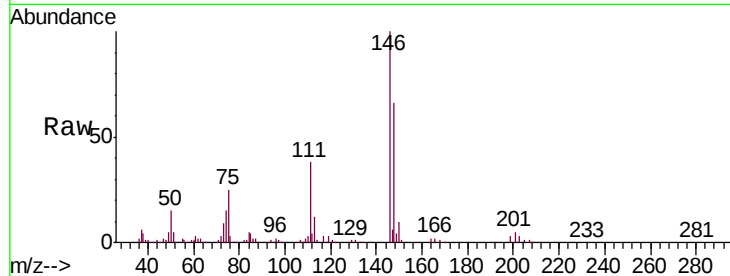
ClientSampleId :

VF0511SBS01

Tgt Ion:	146	Resp:	144855
Ion Ratio	Lower	Upper	
146	100		
111	38.0	20.0	60.0
148	64.3	33.1	99.5

Manual Integrations
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5/12/2019 12:32:35 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.385 ug/l

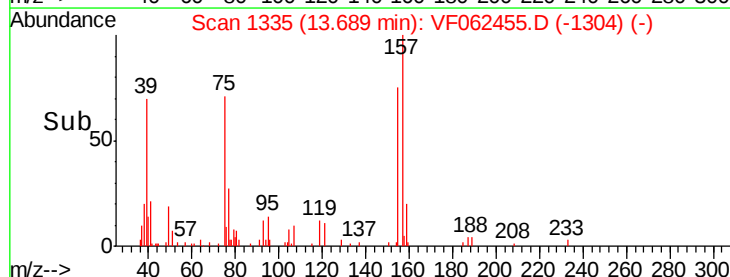
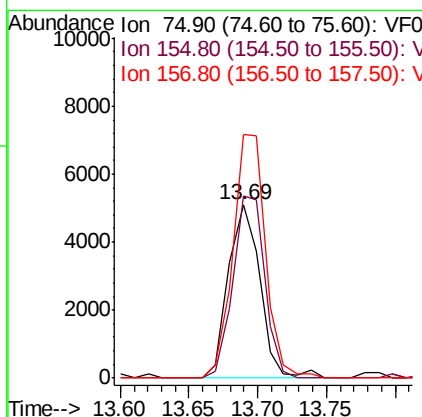
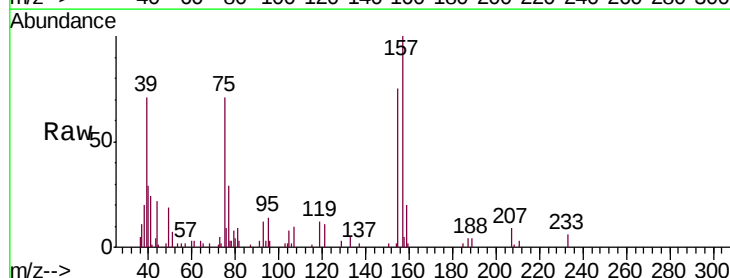
RT: 13.69 min Scan# 1335

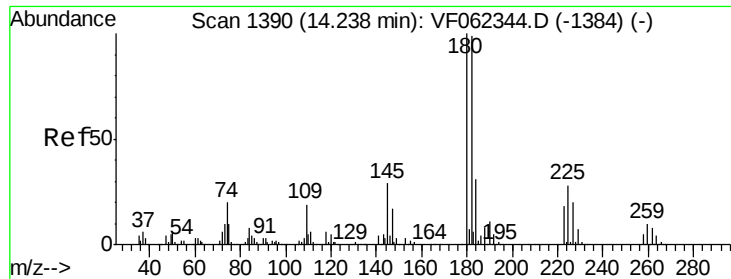
Delta R.T. 0.00 min

Lab File: VF062455.D

Acq: 11 May 2019 12:56

Tgt Ion:	75	Resp:	8212
Ion Ratio	Lower	Upper	
75	100		
155	104.9	51.8	155.4
157	144.2	67.3	201.8





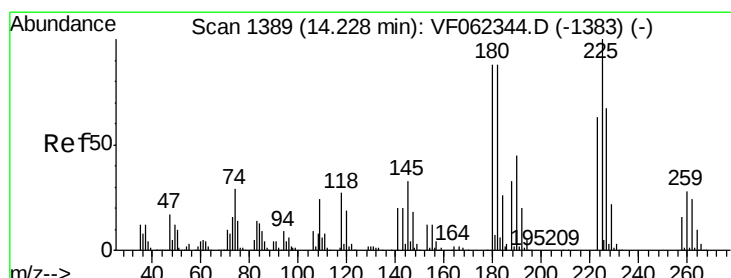
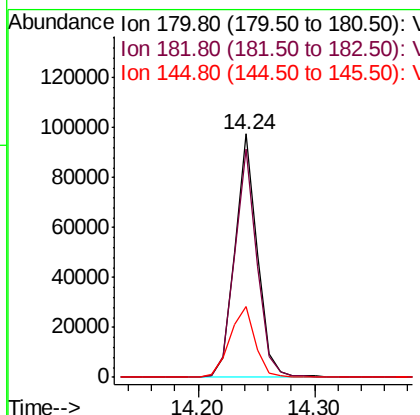
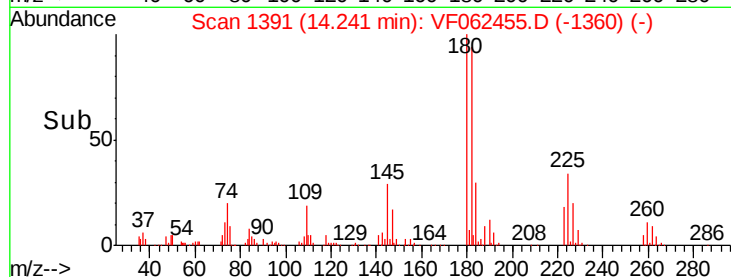
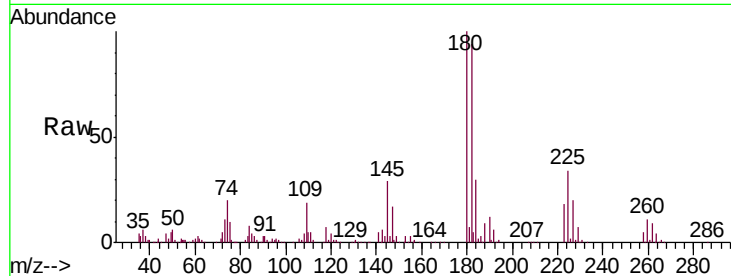
#93
 1,2,4-Trichlorobenzene
 Concen: 23.157 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	129765		
182	95.0	49.0	147.0	
145	33.1	16.7	50.1	

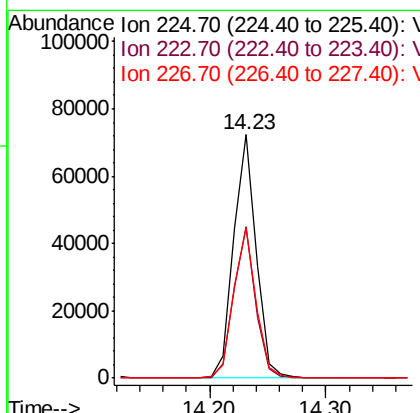
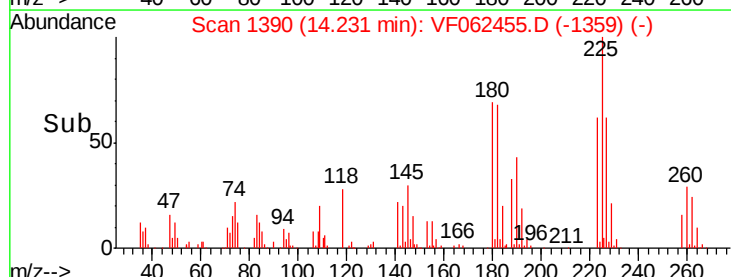
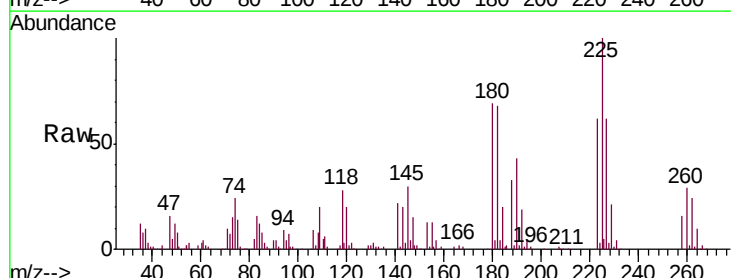
Manual Integrations
 APPROVED

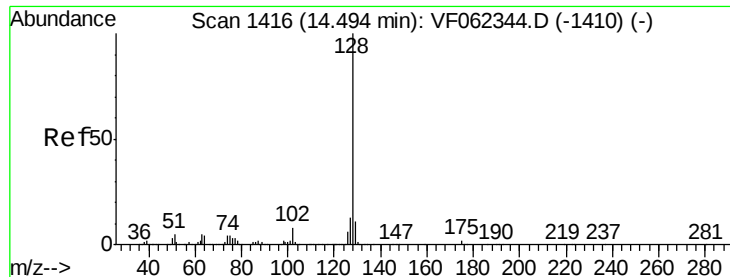
MMDadoda
 5/12/2019 12:32:35 PM



#94
 Hexachlorobutadiene
 Concen: 23.138 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VF062455.D
 Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	96638		
223	60.3	31.9	95.5	
227	61.8	33.1	99.5	





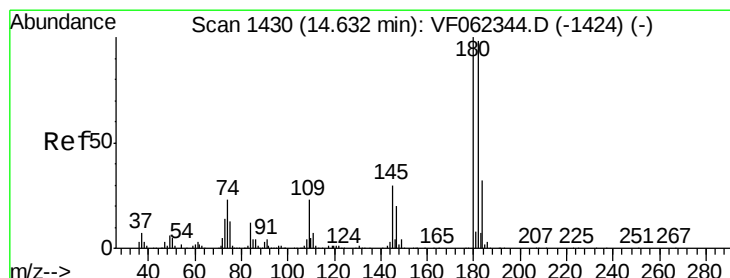
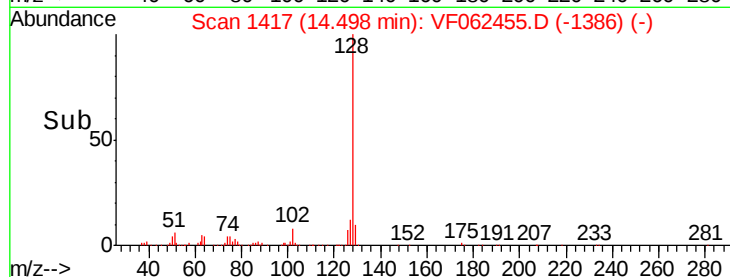
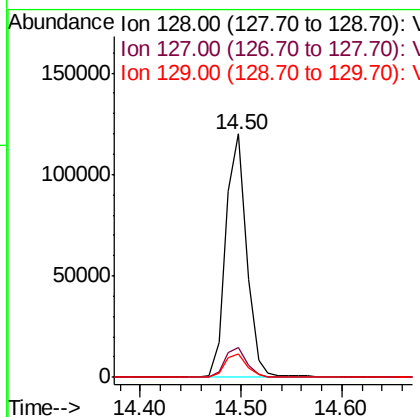
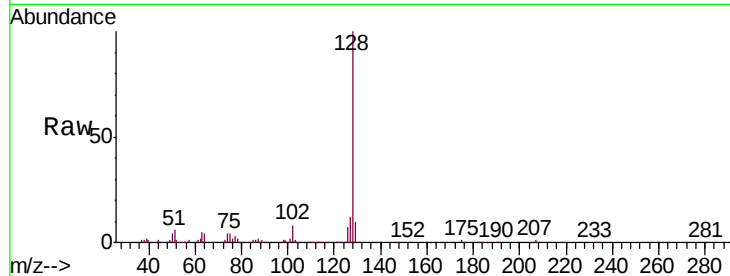
#95
Naphthalene
Concen: 20.569 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBS01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.3	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
5/12/2019 12:32:35 PM



#96
1,2,3-Trichlorobenzene
Concen: 22.739 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VF062455.D
Acq: 11 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.6	49.4	148.0
145	29.7	14.8	44.3

