

Data File : VL033122.D
Acq On : 28 Jan 2019 21:51
Operator : SY/AP
Sample : VSTDIC001
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Jan 28 22:39:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012819AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 16:32:44 2019
QLast Update : Mon Jan 28 16:32:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1204122	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3176946	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2956177	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2033296	8.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.70%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	312781	1.396	ppbv 98
3) Chlorodifluoromethane	3.01	51	173098	1.270	ppbv 99
4) Chloromethane	3.17	50	94538	1.211	ppbv 93
5) Vinyl Chloride	3.29	62	97022	1.231	ppbv 93
6) Bromomethane	3.51	94	63924	1.193	ppbv 98
7) Chloroethane	3.60	64	36057	1.169	ppbv 96
8) Dichlorotetrafluoroethane	3.22	85	250180	1.296	ppbv 98
9) Propene	3.04	41	66377	1.304	ppbv 97
10) Heptane	8.25	43	158232	1.091	ppbv 96
11) Trichlorofluoromethane	4.00	101	265675	1.073	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	187554	1.198	ppbv 97
13) Ethanol	3.65	45	11647	0.574	ppbv # 14
14) Bromoethene	3.79	108	77038	1.114	ppbv 98
15) Acetone	3.90	43	178385	1.070	ppbv 95
16) 1,3-Butadiene	3.36	39	68607	1.092	ppbv 97
17) tert-Butyl alcohol	4.35	59	3178	0.090	ppbv # 74
18) 1,1-Dichloroethene	4.35	96	81126	1.125	ppbv 96
19) Isopropyl Alcohol	4.03	45	121859	1.062	ppbv # 96
20) Methylene Chloride	4.41	84	80719	1.162	ppbv 99
21) Allyl Chloride	4.48	41	119683	1.159	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	81926	1.146	ppbv 93
23) Vinyl Acetate	5.16	43	240793	1.136	ppbv # 96
24) 1,1-Dichloroethane	5.09	63	200835	1.116	ppbv 98
25) Ethyl Acetate	5.77	43	314532	1.116	ppbv 99
26) Hexane	5.78	57	158811	1.197	ppbv 96
27) Carbon Disulfide	4.62	76	191964	1.173	ppbv # 93
28) Methyl tert-Butyl Ether	5.12	73	235998	1.140	ppbv 99
29) Chloroform	5.84	83	251882	1.114	ppbv 96
30) Cyclohexane	7.24	84	110335	1.116	ppbv # 70
31) cis-1,2-Dichloroethene	5.64	61	136200	1.106	ppbv 96
32) 1,1,1-Trichloroethane	6.62	97	257113	1.121	ppbv 98
34) 2-Butanone	5.34	43	191008	1.035	ppbv 99
35) Carbon Tetrachloride	7.13	117	277156	1.016	ppbv 92
36) Benzene	7.00	78	283836	1.091	ppbv 96
37) 1,2-Dichloroethane	6.41	62	186519	1.027	ppbv 99
38) Trichloroethene	7.95	130	56838	0.531	ppbv 92
39) 1,2-Dichloropropane	7.73	63	105362	1.078	ppbv 90
40) 1,4-Dioxane	7.98	88	33678	0.908	ppbv 70
41) Tetrahydrofuran	6.17	42	99637	1.061	ppbv 98
42) Bromodichloromethane	7.91	83	254021	1.018	ppbv 99
43) Methyl Methacrylate	8.14	69	100469	1.029	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	476376	1.081	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	107348	0.883	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	136373	0.983	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	121968	1.068	ppbv	98
48) Dibromochloromethane	10.45	129	209421	1.038	ppbv	100
49) Bromoform	13.19	173	156660	0.889	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	247950	1.060	ppbv	100
51) 2-Hexanone	10.29	43	161474	0.954	ppbv #	99
52) Tetrachloroethene	11.37	164	101515	1.104	ppbv	93
53) Toluene	9.95	91	293887	1.054	ppbv	97
54) 1,2-Dibromoethane	10.75	107	171093	1.040	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.28	131	161604	1.058	ppbv #	1
57) Chlorobenzene	12.30	112	263178	1.067	ppbv	97
58) Ethyl Benzene	12.86	91	352792	0.945	ppbv	97
59) m/p-Xylene	13.15	91	236766	0.686	ppbv #	100
60) o-Xylene	13.85	91	356778	1.056	ppbv	98
61) Styrene	13.68	104	213568	0.990	ppbv	99
62) Isopropylbenzene	14.83	105	469951	0.977	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	268639	1.070	ppbv	100
64) n-propylbenzene	15.71	120	114241	0.935	ppbv	88
65) tert-Butylbenzene	16.91	119	399462	0.938	ppbv	94
66) Benzyl Chloride	17.16	91	206852	0.852	ppbv	97
67) sec-Butylbenzene	17.46	105	590191	0.968	ppbv	98
69) p-Isopropyltoluene	17.81	119	235491	0.476	ppbv #	50
70) n-Butylbenzene	18.72	91	436540	0.877	ppbv	97
71) 2-Chlorotoluene	15.61	91	309842	0.908	ppbv	97
72) 4-Ethyltoluene	16.00	105	341679	0.920	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	335324	0.915	ppbv	91
74) 1,2,4-Trimethylbenzene	16.92	105	368948	0.909	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	100663	0.421	ppbv #	6
76) 1,4-Dichlorobenzene	17.31	146	191093	0.878	ppbv	98
77) 1,2-Dichlorobenzene	17.98	146	211377	0.982	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	167743	1.015	ppbv	99
79) Naphthalene	22.42	128	164375	0.481	ppbv #	94
80) Naphthalene,2-methyl-	25.11	142	18405	0.177	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	87855	0.532	ppbv	95

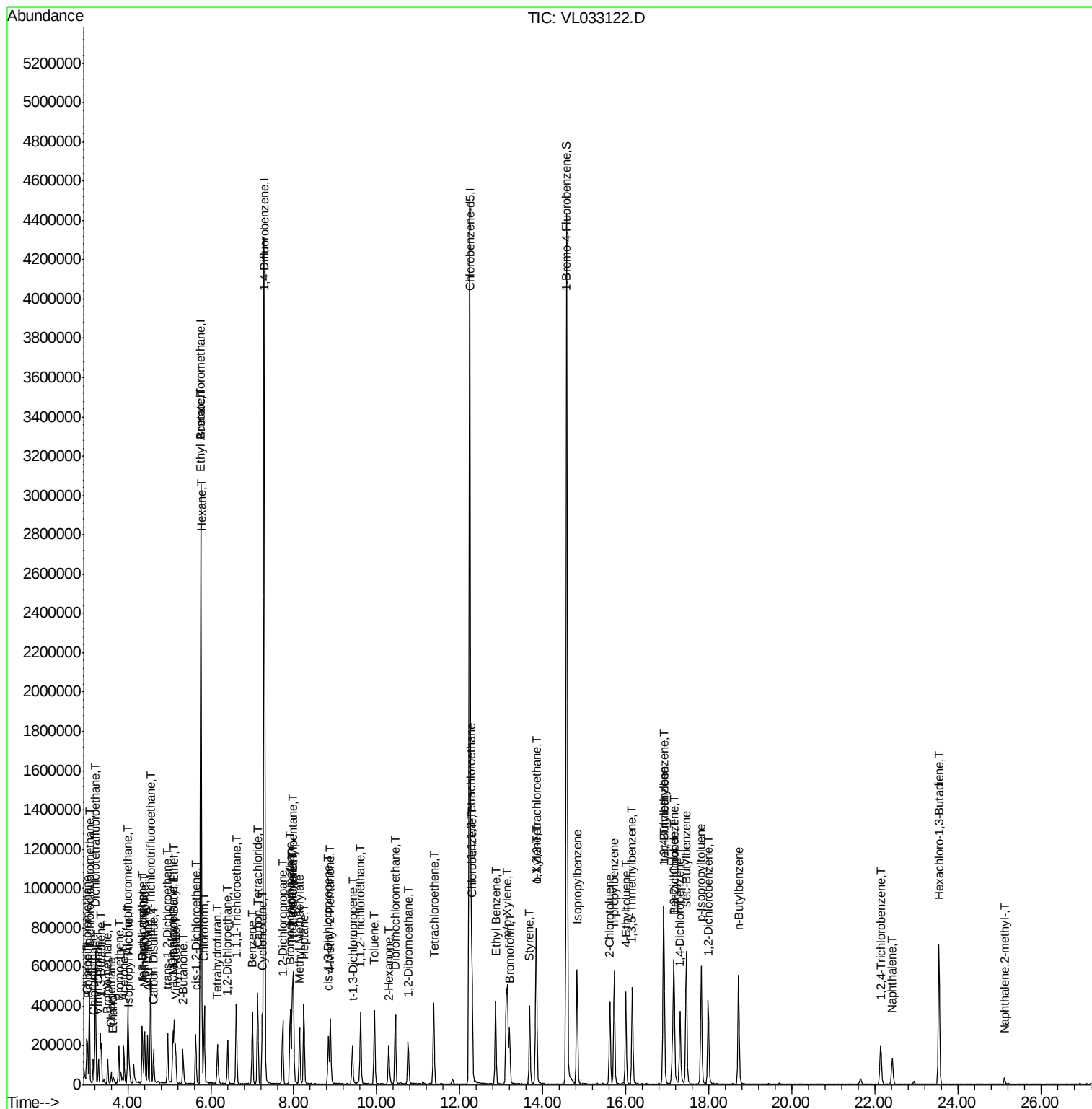
(#) = qualifier out of range (m) = manual integration (+) = signals summed

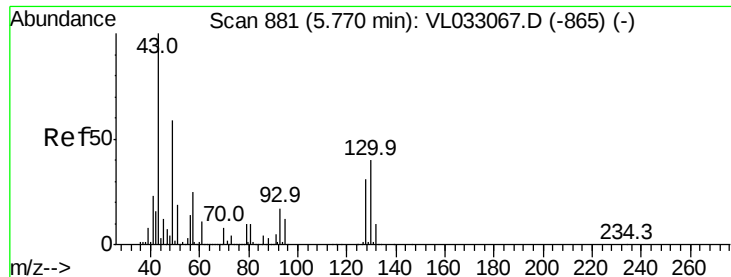
Data File : VL033122.D

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Acq On       : 28 Jan 2019   21:51
Operator    : SY/AP
Sample      : VSTDICC001
Misc       : 400ml/MSVOA_L
ALS Vial    : 1      Sample Multipl
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MSVOA_L
ClientSampleId :
VSTDICC001

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

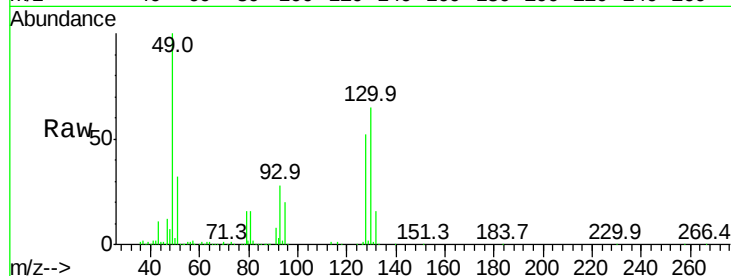
Tgt Ion: 49 Resp: 1204122

Ion Ratio Lower Upper

49 100

128 54.0 25.9 77.7

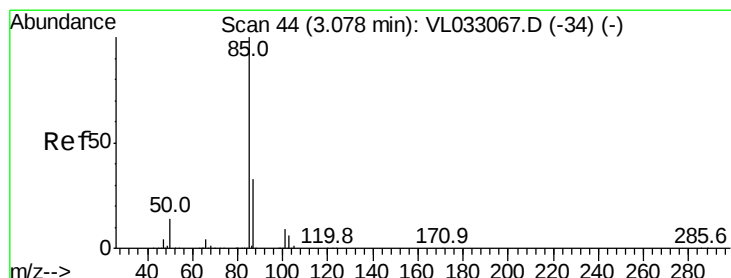
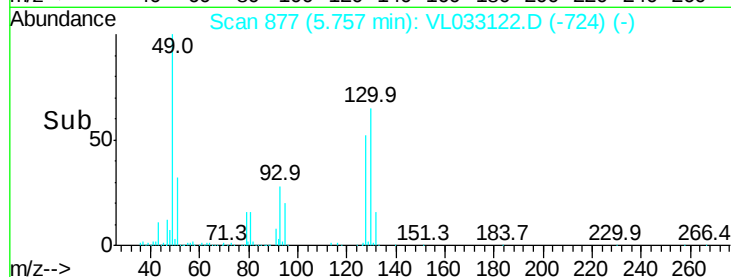
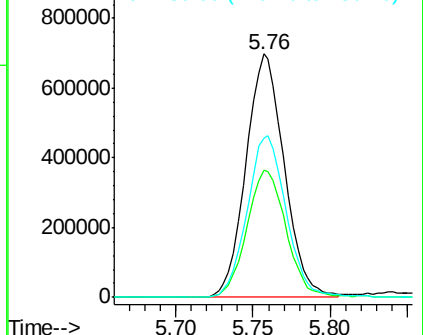
130 68.6 32.9 98.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.396 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033122.D

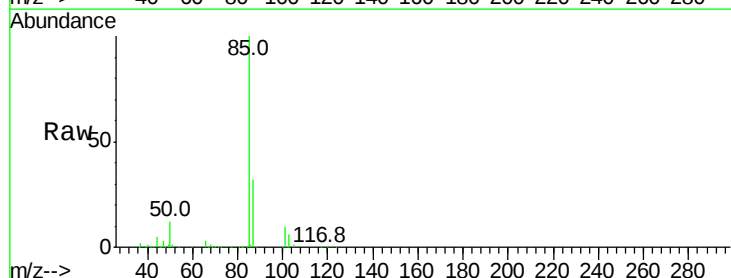
Acq: 28 Jan 2019 21:51

Tgt Ion: 85 Resp: 312781

Ion Ratio Lower Upper

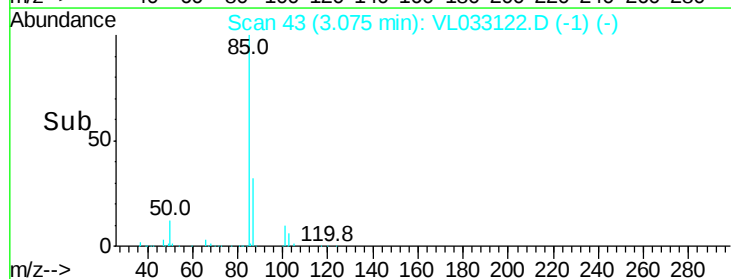
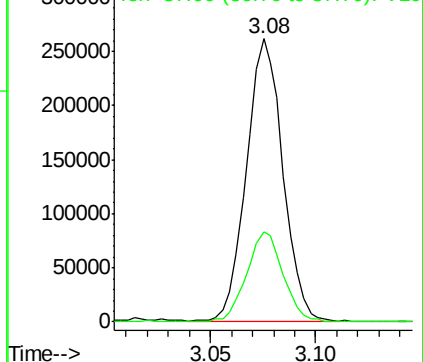
85 100

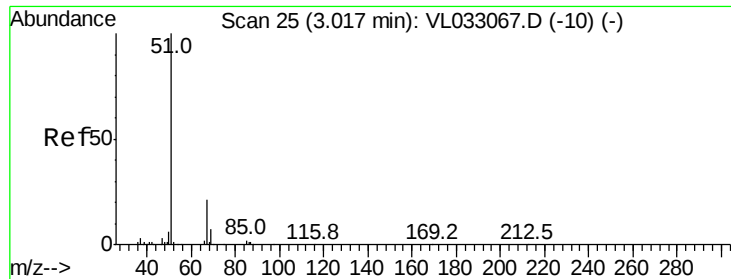
87 31.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.270 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

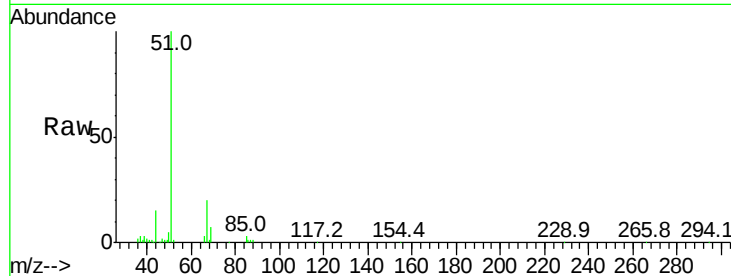
VSTDIC001

Tgt Ion: 51 Resp: 173098

Ion Ratio Lower Upper

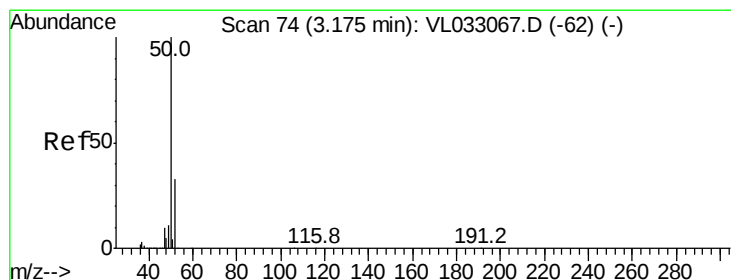
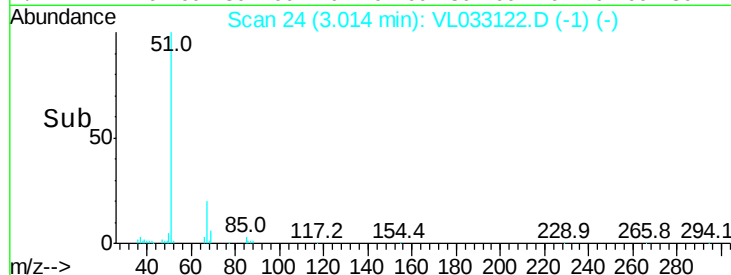
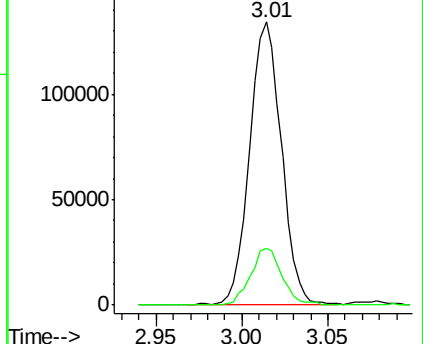
51 100

67 19.8 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.211 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033122.D

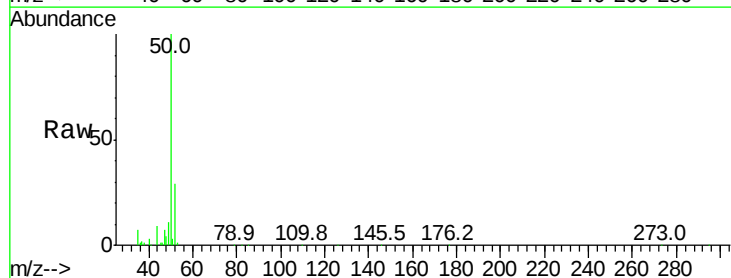
Acq: 28 Jan 2019 21:51

Tgt Ion: 50 Resp: 94538

Ion Ratio Lower Upper

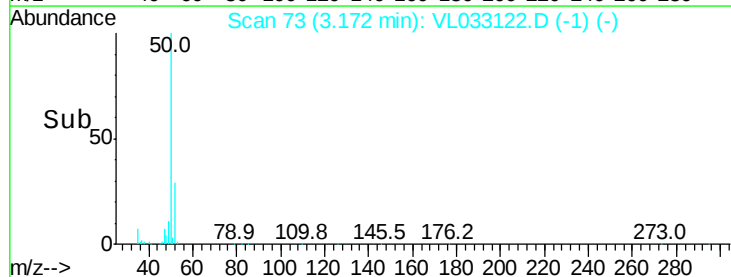
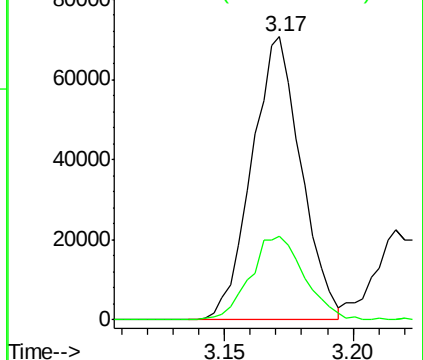
50 100

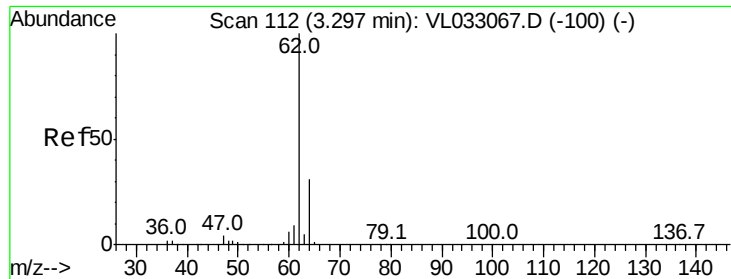
52 29.7 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.231 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

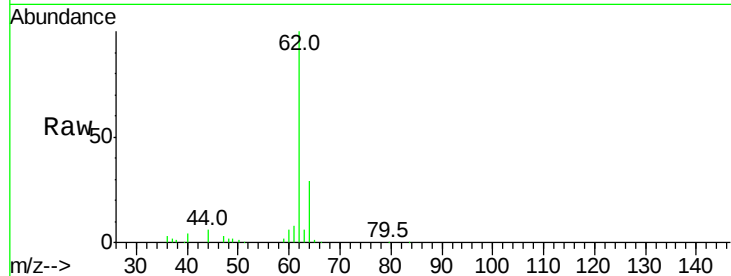
VSTDIC001

Tgt Ion: 62 Resp: 97022

Ion Ratio Lower Upper

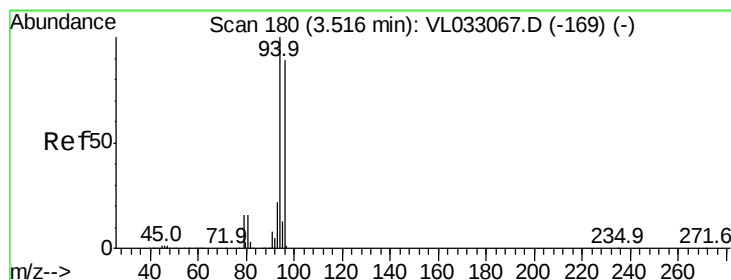
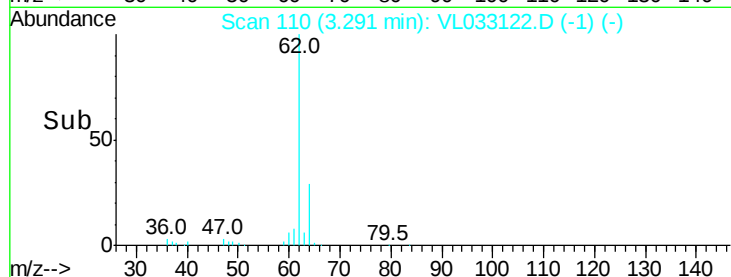
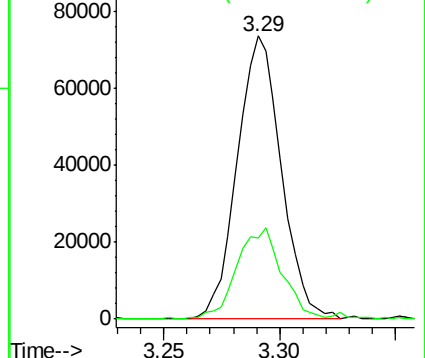
62 100

64 27.9 25.7 38.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.193 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033122.D

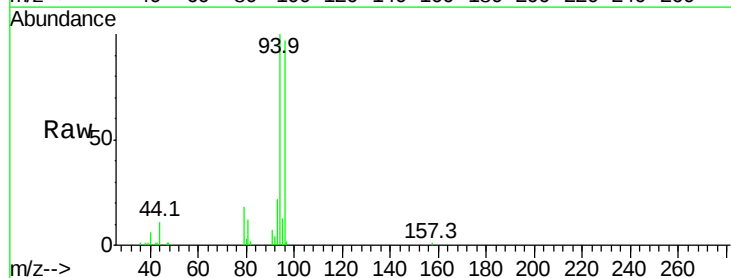
Acq: 28 Jan 2019 21:51

Tgt Ion: 94 Resp: 63924

Ion Ratio Lower Upper

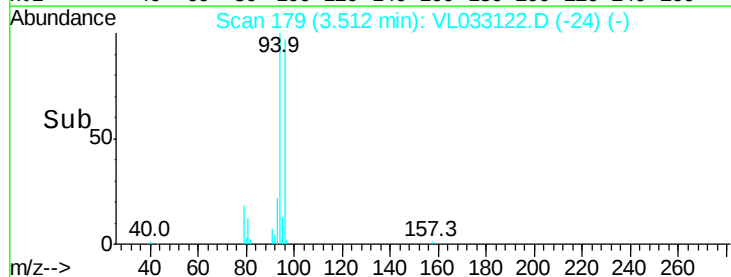
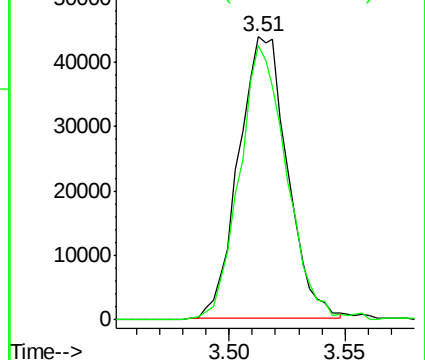
94 100

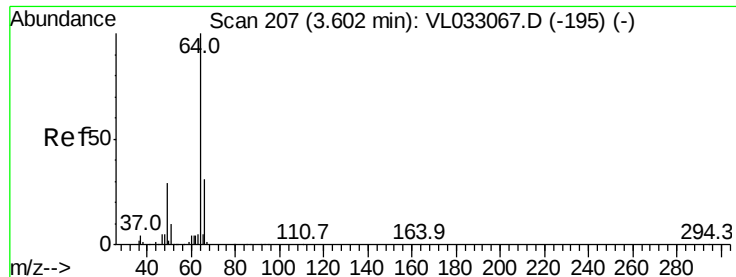
96 96.6 75.4 113.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.169 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

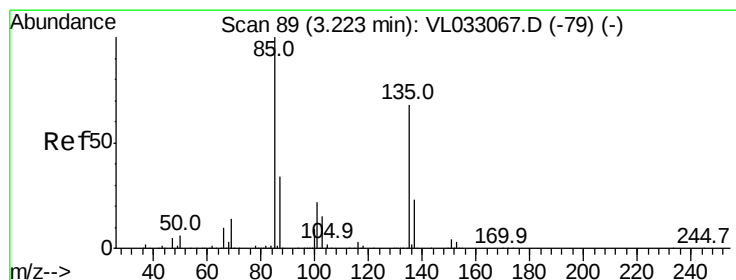
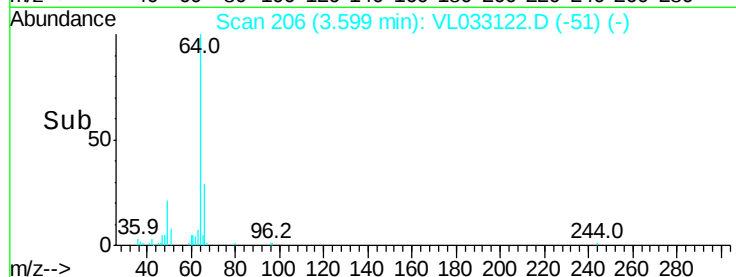
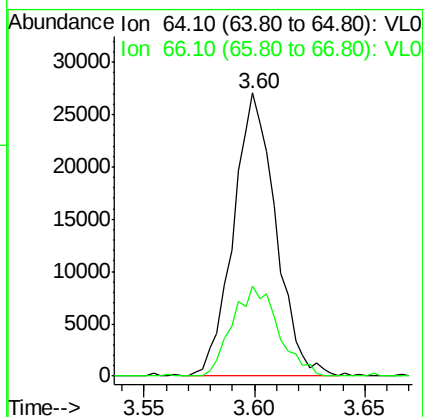
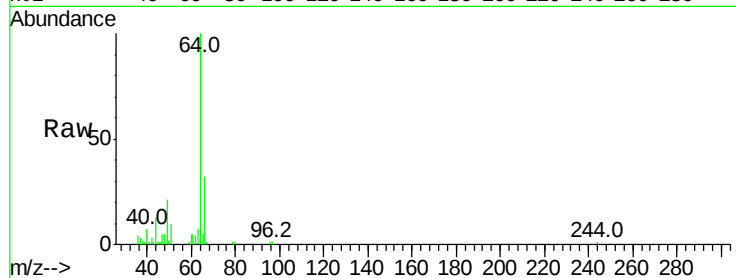
VSTDIC001

Tgt Ion: 64 Resp: 36057

Ion Ratio Lower Upper

64 100

66 32.0 24.0 36.0



#8

Dichlorotetrafluoroethane

Concen: 1.296 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033122.D

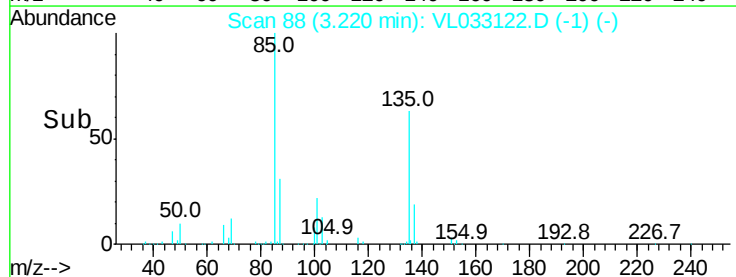
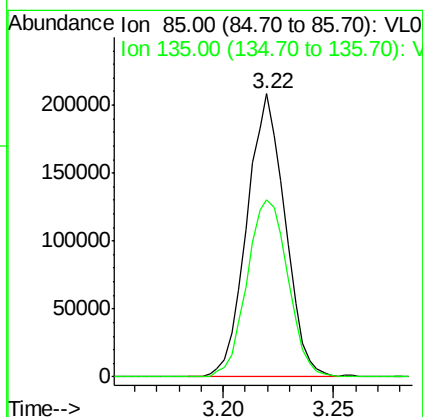
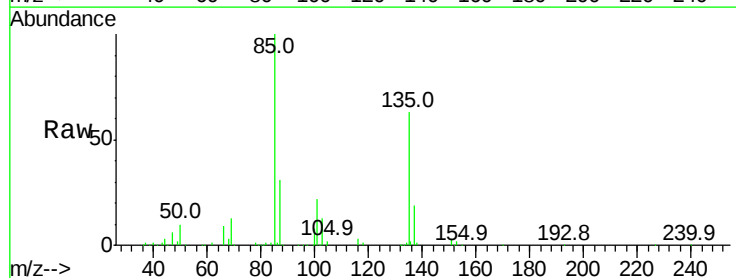
Acq: 28 Jan 2019 21:51

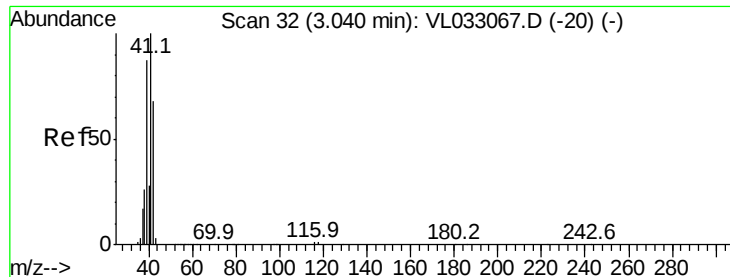
Tgt Ion: 85 Resp: 250180

Ion Ratio Lower Upper

85 100

135 67.0 54.8 82.2





#9

Propene

Concen: 1.304 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

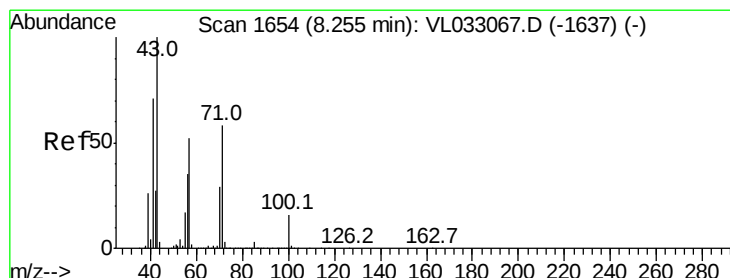
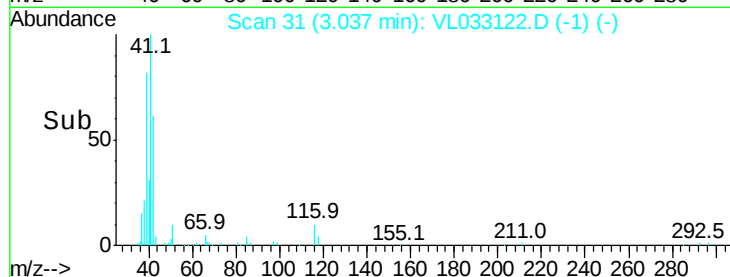
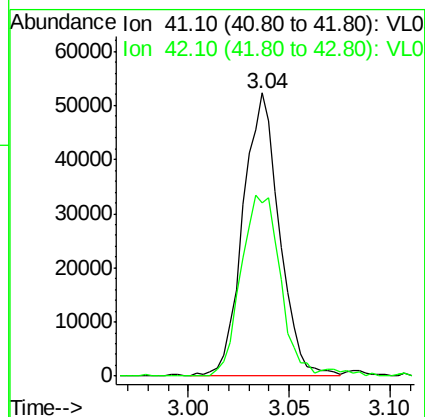
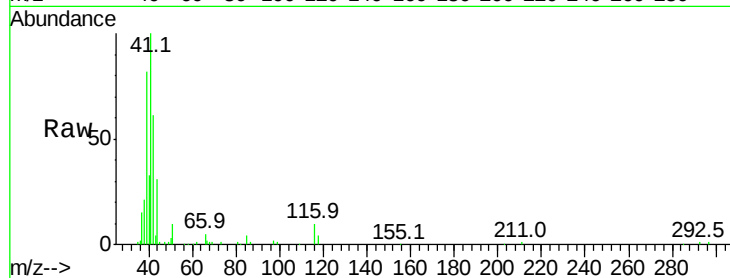
VSTDIC001

Tgt Ion: 41 Resp: 66377

Ion Ratio Lower Upper

41 100

42 70.8 54.6 82.0



#10

Heptane

Concen: 1.091 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033122.D

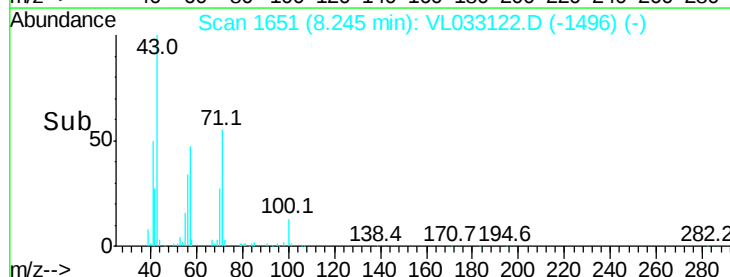
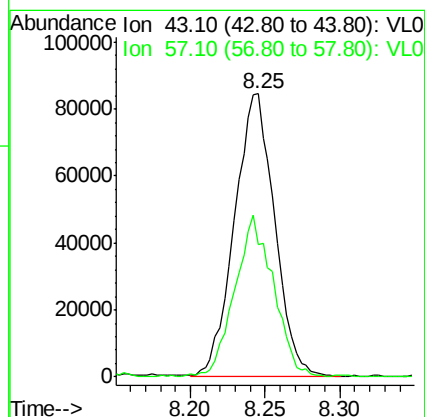
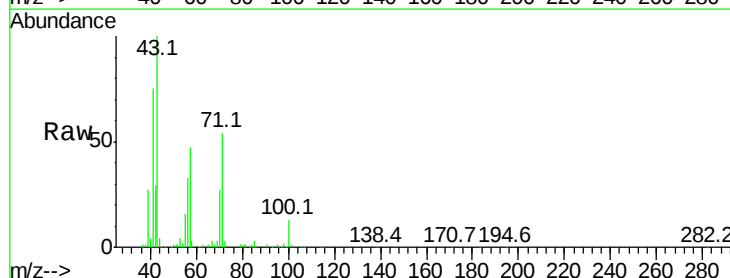
Acq: 28 Jan 2019 21:51

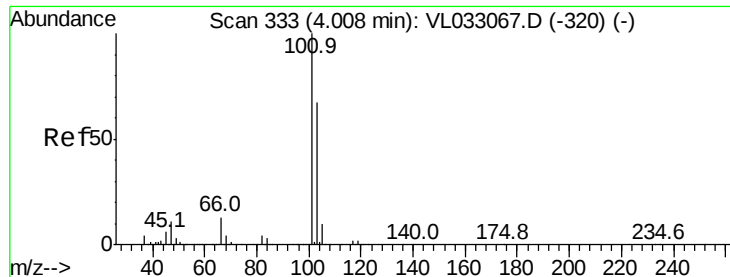
Tgt Ion: 43 Resp: 158232

Ion Ratio Lower Upper

43 100

57 55.2 42.2 63.2





#11

Trichlorofluoromethane

Concen: 1.073 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

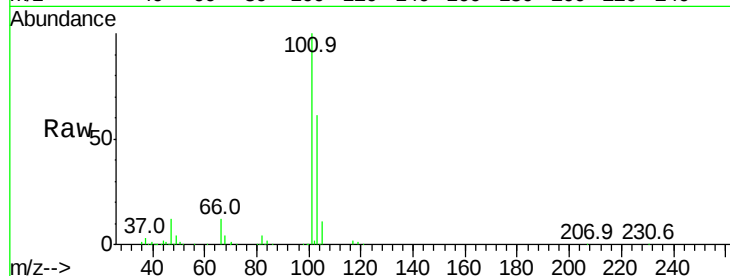
VSTDIC001

Tgt Ion:101 Resp: 265675

Ion Ratio Lower Upper

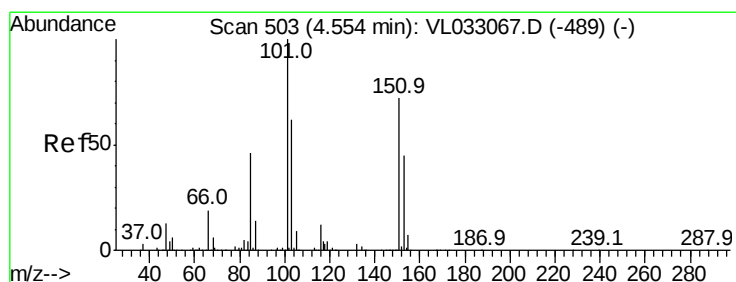
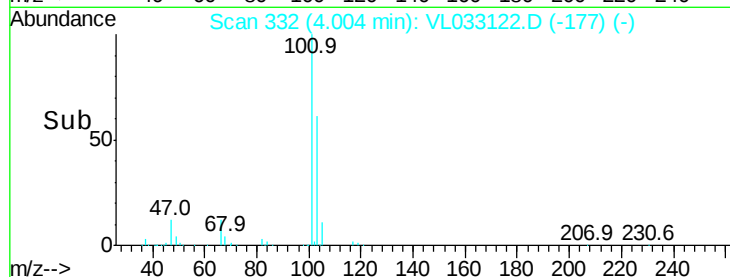
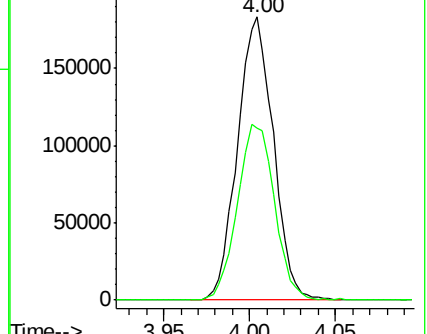
101 100

103 60.6 49.4 74.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.198 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033122.D

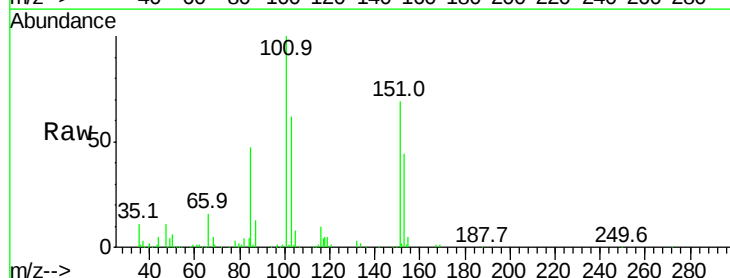
Acq: 28 Jan 2019 21:51

Tgt Ion:101 Resp: 187554

Ion Ratio Lower Upper

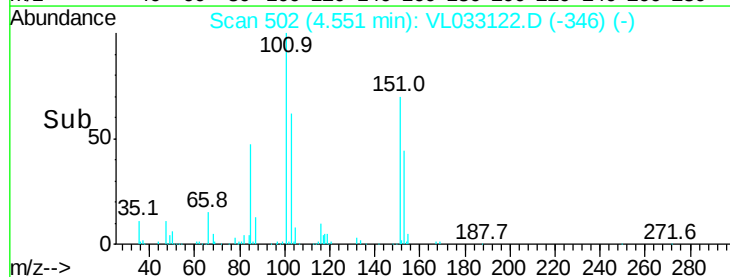
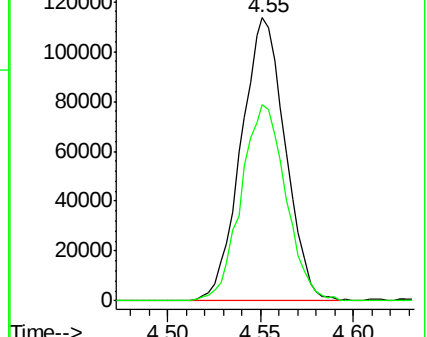
101 100

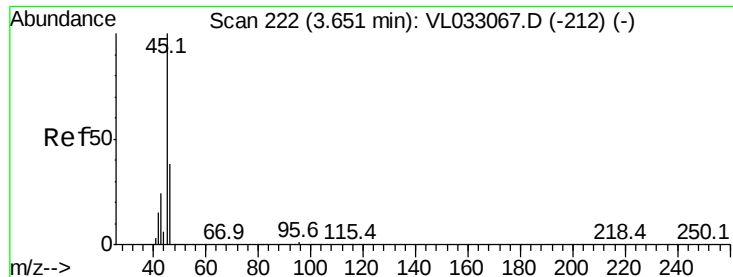
151 70.3 57.9 86.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.574 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

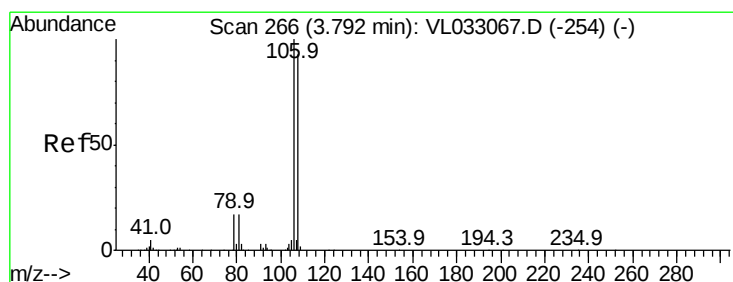
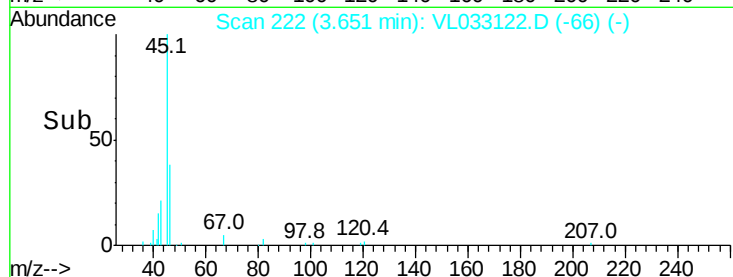
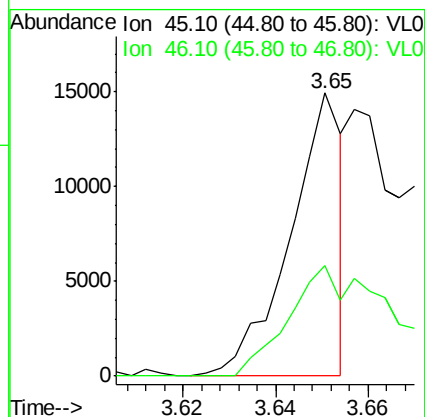
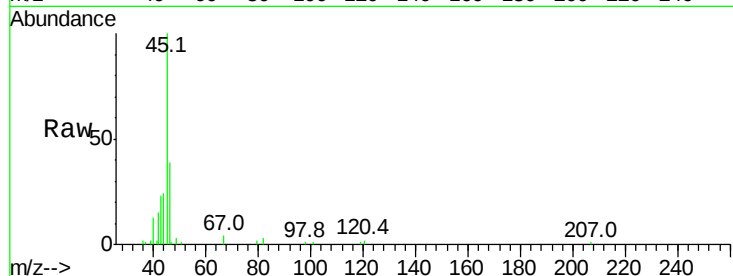
VSTDIC001

Tgt Ion: 45 Resp: 11647

Ion Ratio Lower Upper

45 100

46 89.0 15.0 60.2#



#14

Bromoethene

Concen: 1.114 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

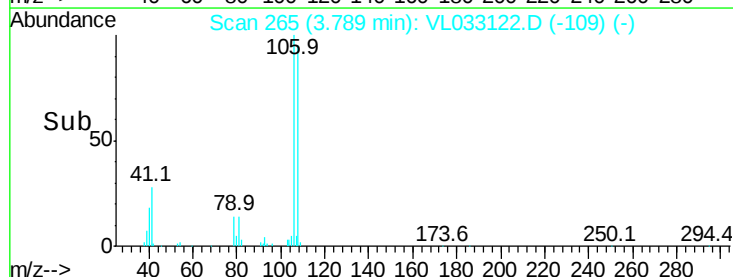
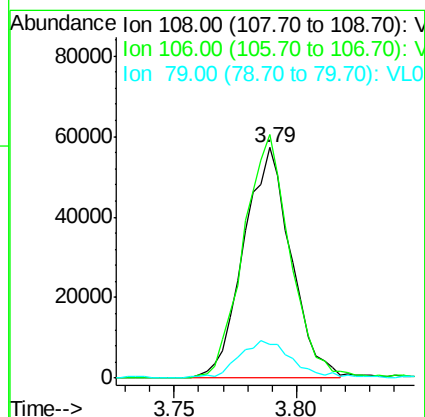
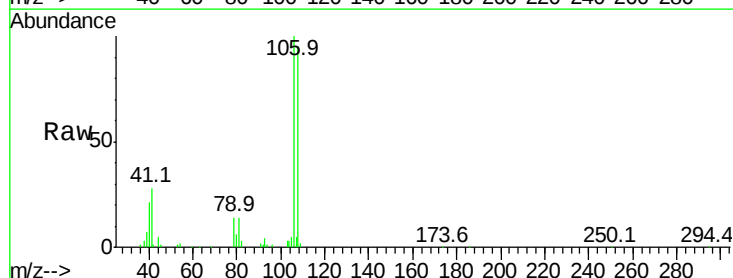
Tgt Ion: 108 Resp: 77038

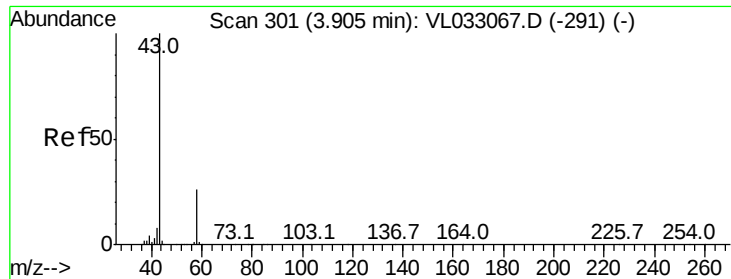
Ion Ratio Lower Upper

108 100

106 105.3 85.5 128.3

79 19.3 13.8 20.6

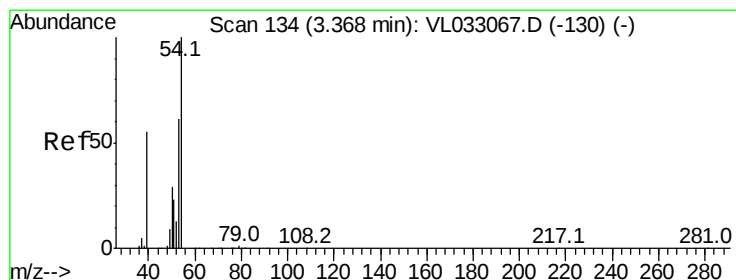
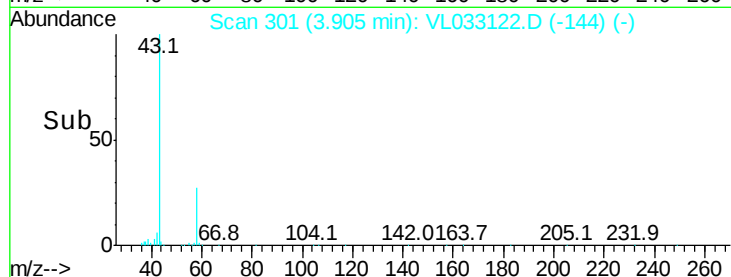
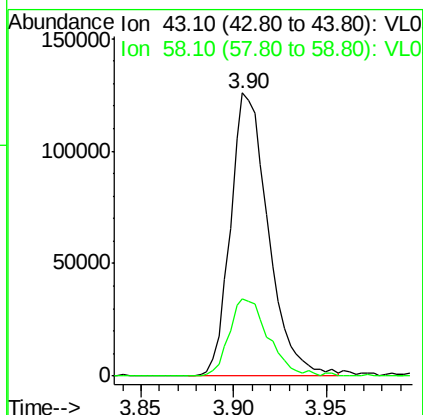
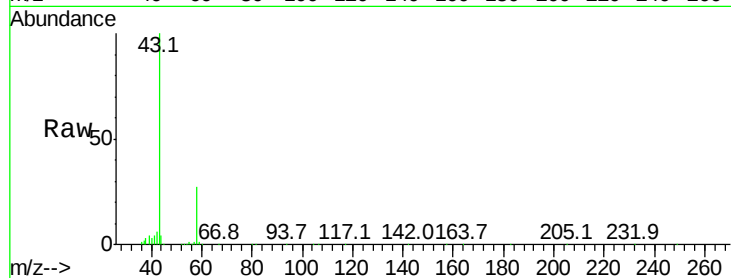




#15
Acetone
Concen: 1.070 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.01 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

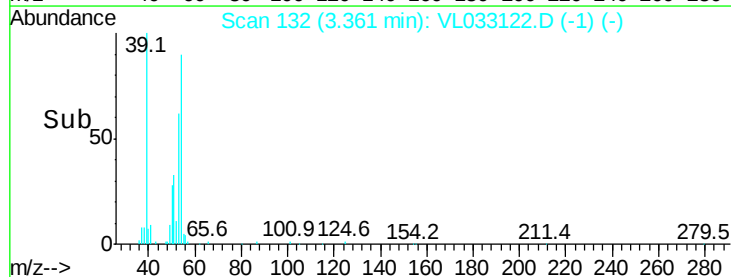
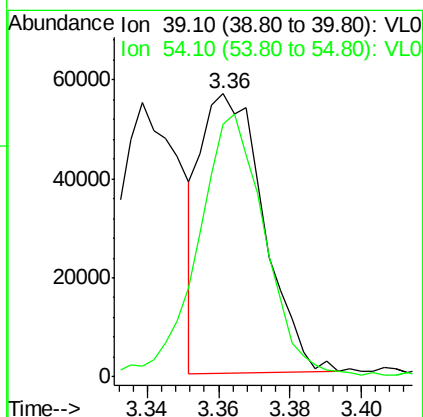
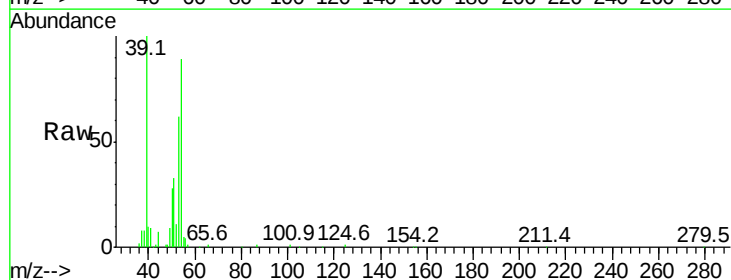
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

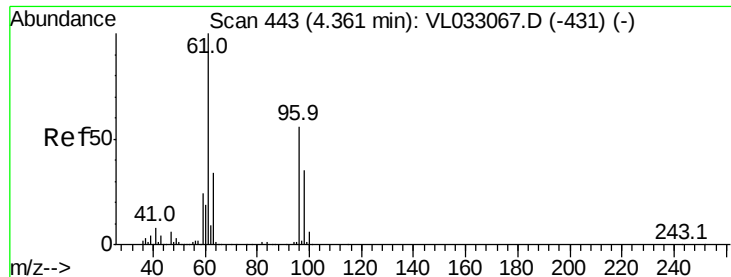
Tgt Ion: 43 Resp: 178385
Ion Ratio Lower Upper
43 100
58 28.8 21.1 31.7



#16
1,3-Butadiene
Concen: 1.092 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion: 39 Resp: 68607
Ion Ratio Lower Upper
39 100
54 102.7 80.0 120.0





#17

tert-Butyl alcohol

Concen: 0.090 ppbv

RT: 4.35 min Scan# 438

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

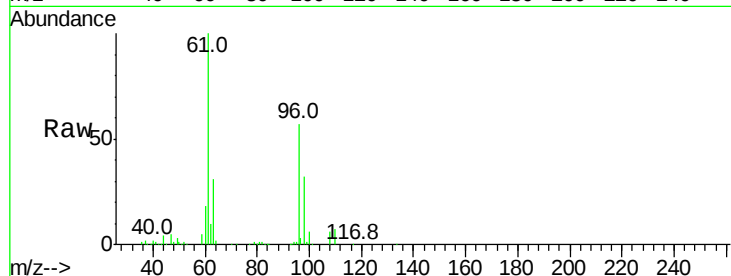
VSTDIC001

Tgt Ion: 59 Resp: 3178

Ion Ratio Lower Upper

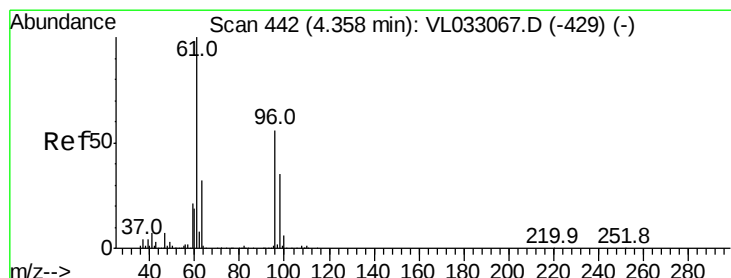
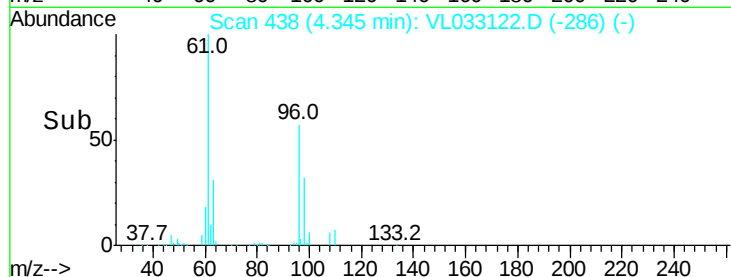
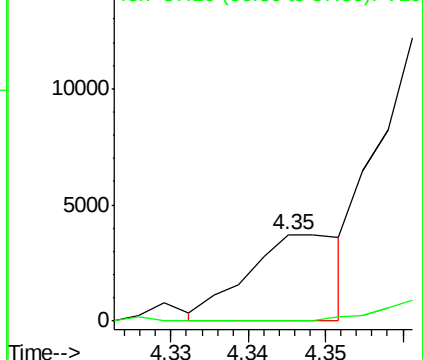
59 100

57 0.0 7.4 11.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 1.125 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

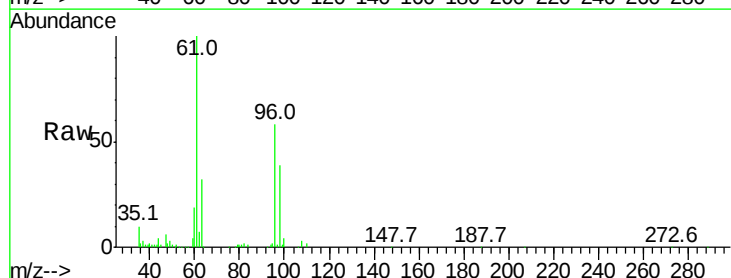
Tgt Ion: 96 Resp: 81126

Ion Ratio Lower Upper

96 100

61 172.4 142.6 213.8

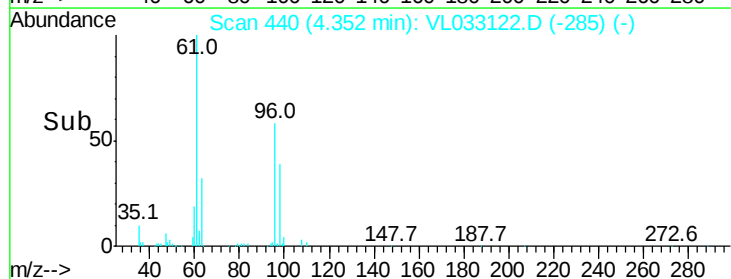
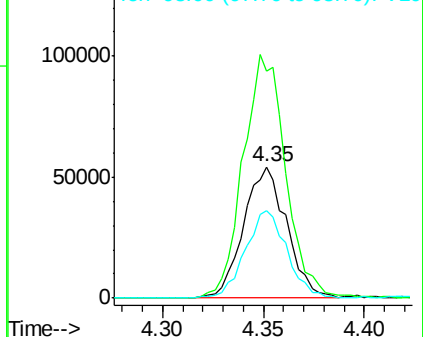
98 66.5 51.4 77.0

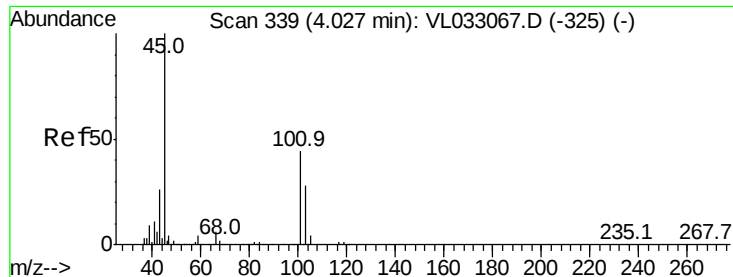


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 1.062 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

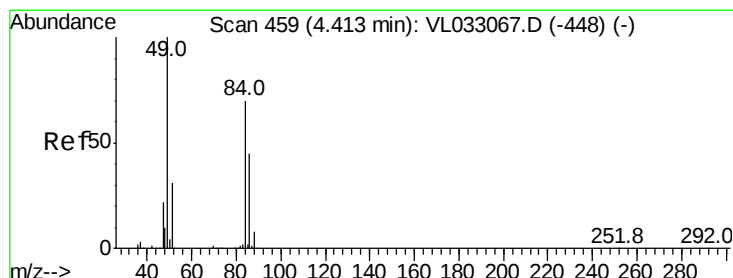
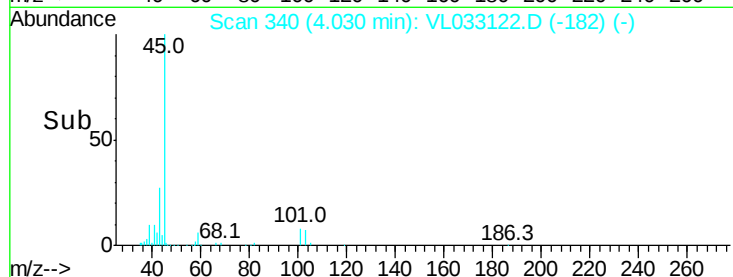
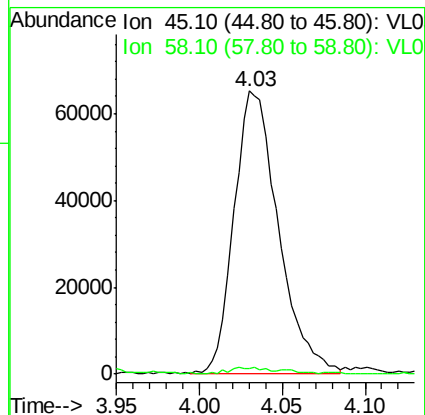
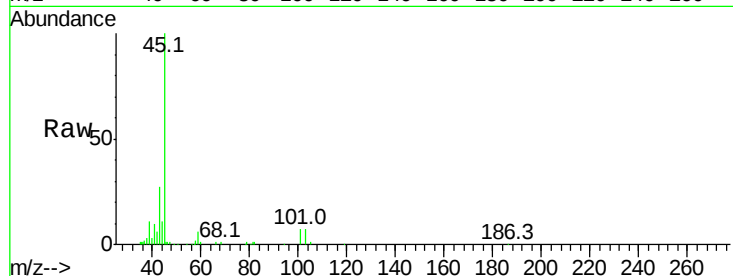
VSTDIC001

Tgt Ion: 45 Resp: 121859

Ion Ratio Lower Upper

45 100

58 3.2 1.4 2.2#



#20

Methylene Chloride

Concen: 1.162 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion: 84 Resp: 80719

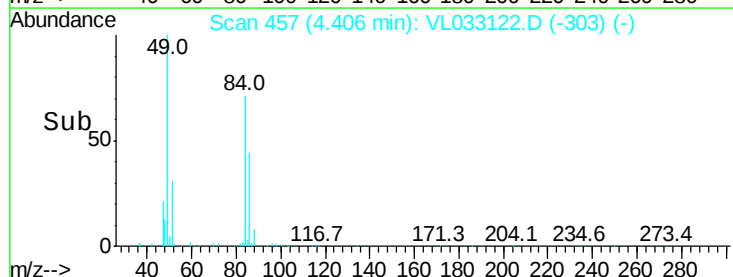
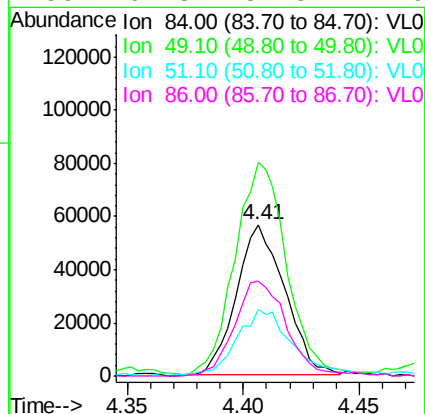
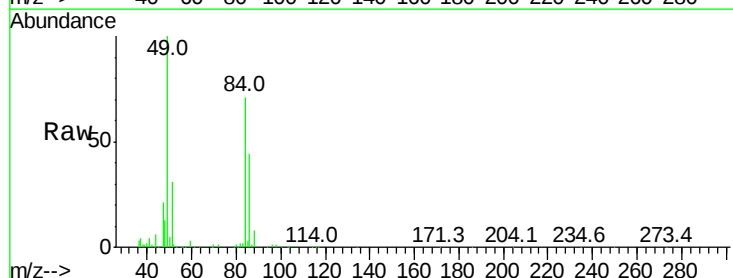
Ion Ratio Lower Upper

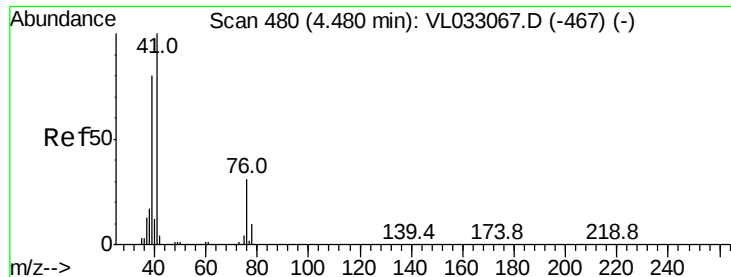
84 100

49 141.5 113.8 170.6

51 43.4 34.5 51.7

86 62.8 51.8 77.6

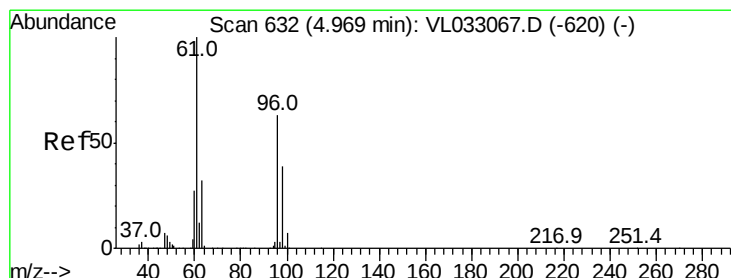
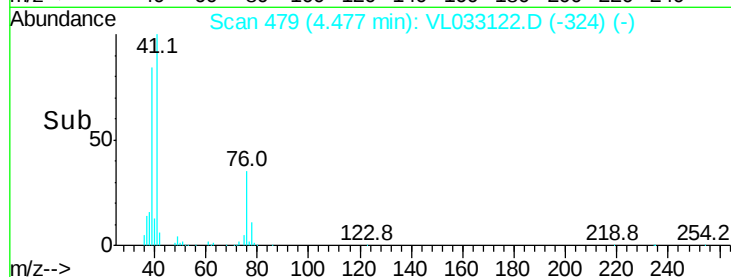
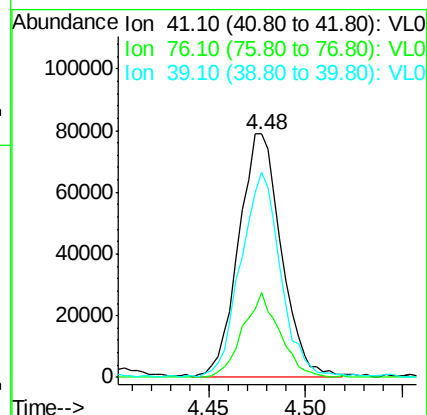
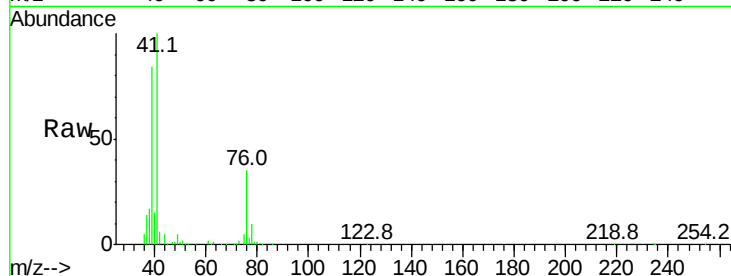




#21
 Allyl Chloride
 Concen: 1.159 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

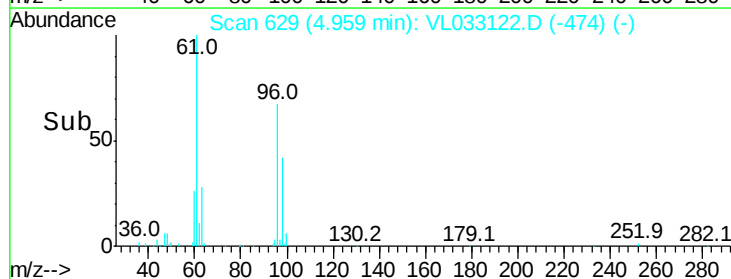
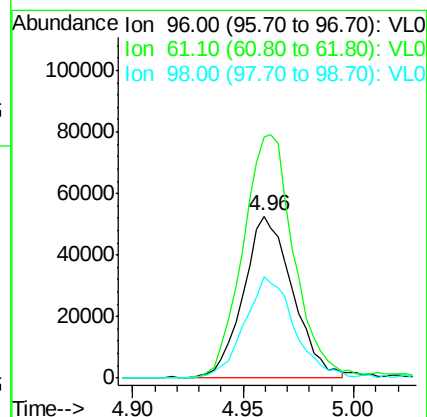
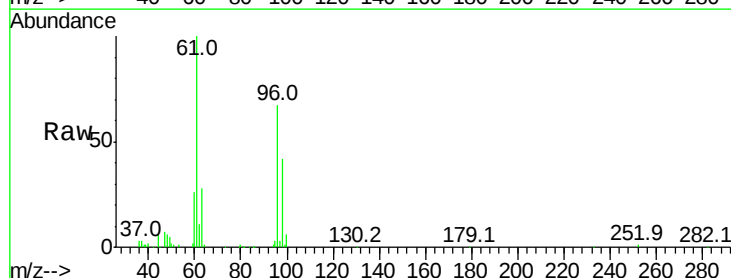
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

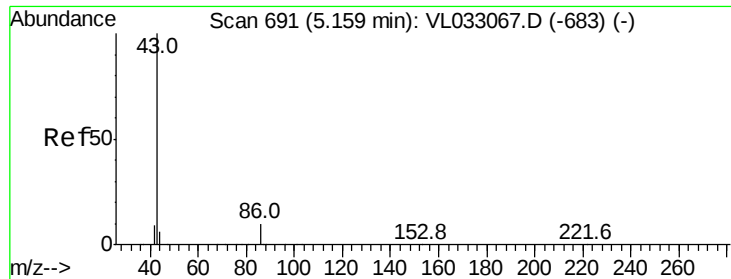
Tgt Ion: 41 Resp: 119683
 Ion Ratio Lower Upper
 41 100
 76 30.8 24.6 37.0
 39 79.5 63.3 94.9



#22
 trans-1,2-Dichloroethene
 Concen: 1.146 ppbv
 RT: 4.96 min Scan# 629
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion: 96 Resp: 81926
 Ion Ratio Lower Upper
 96 100
 61 147.2 127.6 191.4
 98 62.3 48.6 73.0





#23

Vinyl Acetate

Concen: 1.136 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

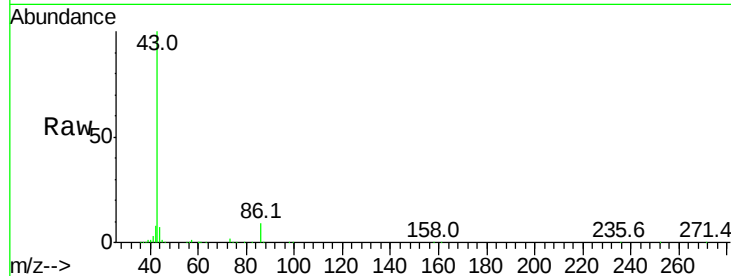
MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 240793

Ion	Ratio	Lower	Upper
43	100		
86	8.7	6.7	10.1
42	7.7	8.1	12.1#
44	6.1	4.3	6.5

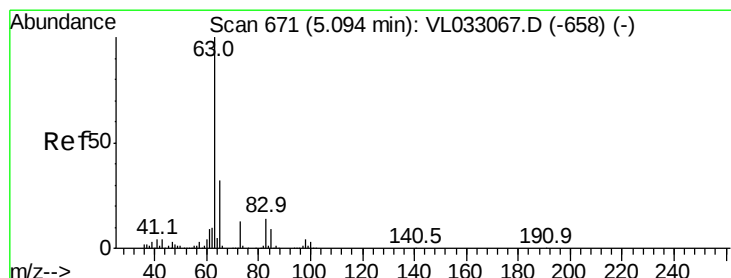
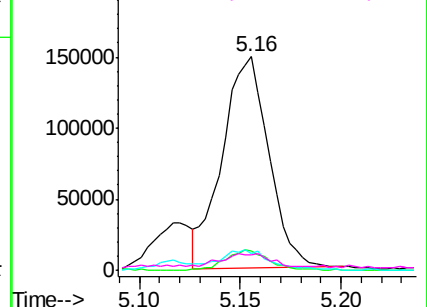
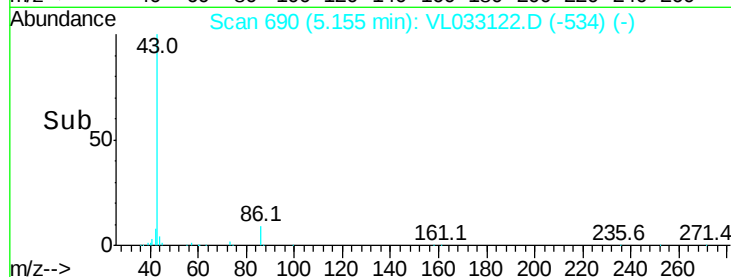


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 1.116 ppbv

RT: 5.09 min Scan# 669

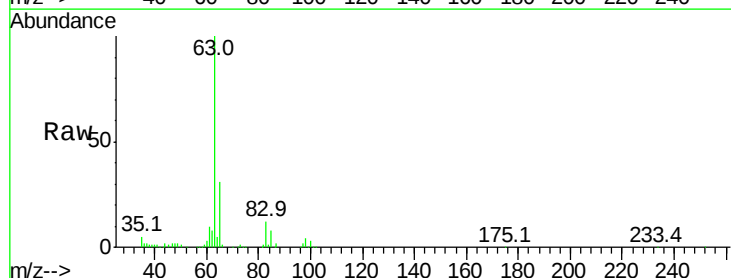
Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion: 63 Resp: 200835

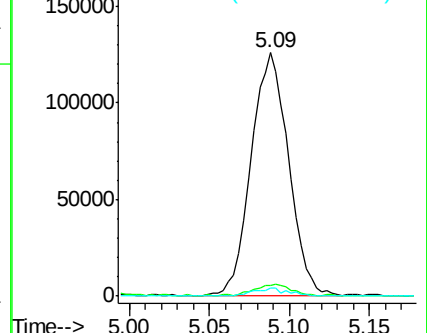
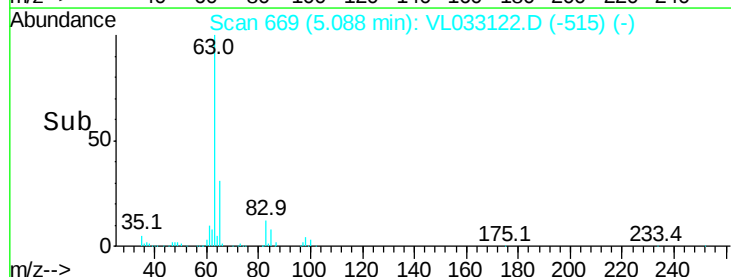
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.5	7.4
100	3.2	1.4	4.2

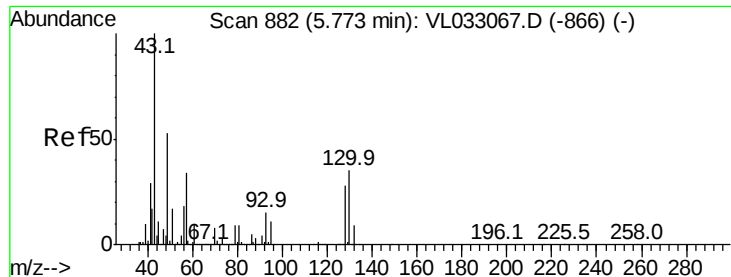


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 1.116 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 314532

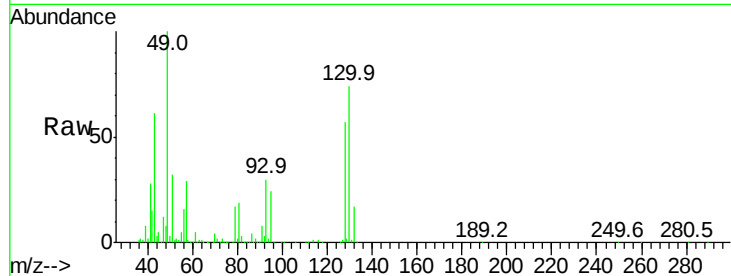
Ion Ratio Lower Upper

43 100

45 9.1 8.0 12.0

61 9.9 7.6 11.4

70 7.5 5.9 8.9

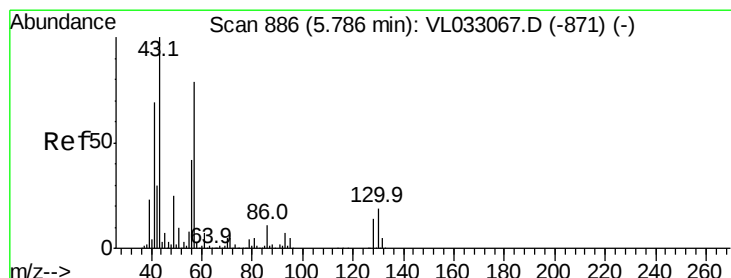
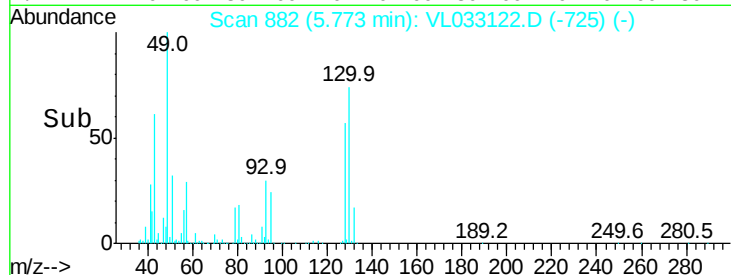
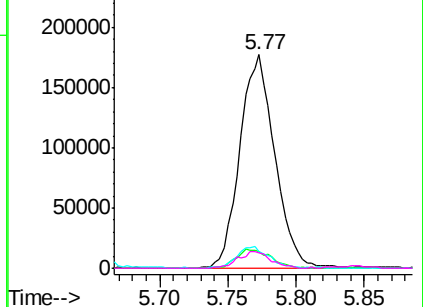


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 1.197 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion: 57 Resp: 158811

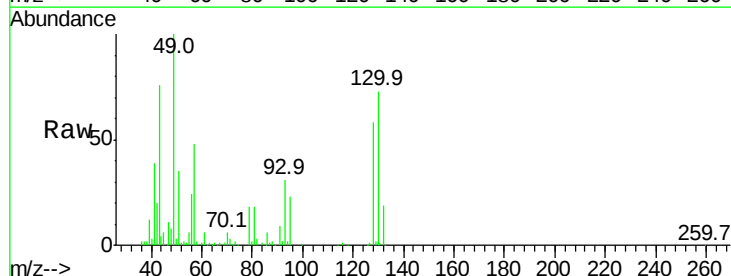
Ion Ratio Lower Upper

57 100

41 87.8 69.9 104.9

43 199.9 169.0 253.4

56 52.6 42.0 63.0

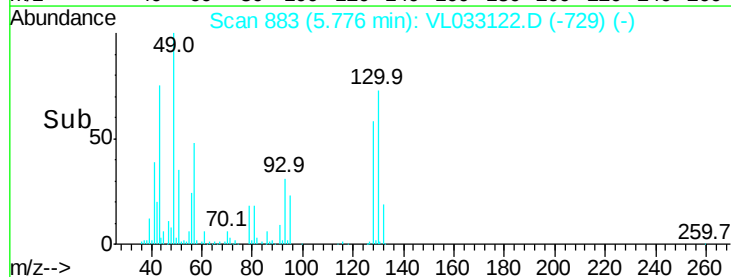
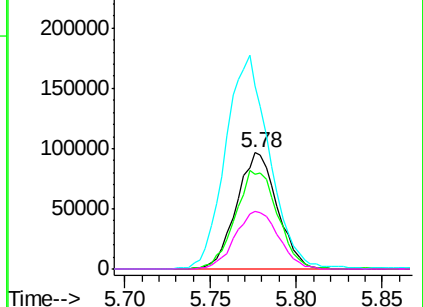


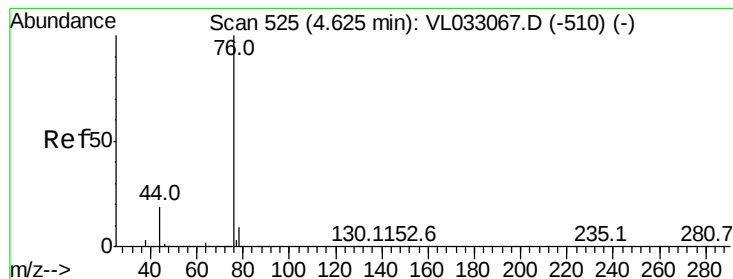
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 1.173 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

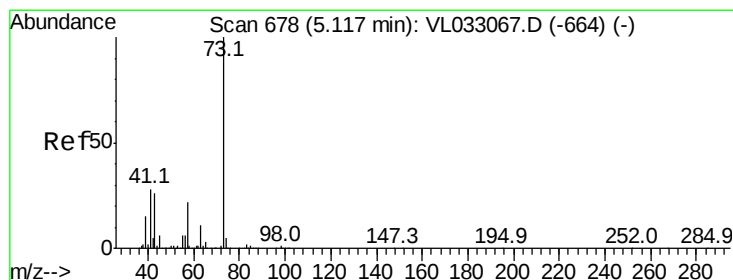
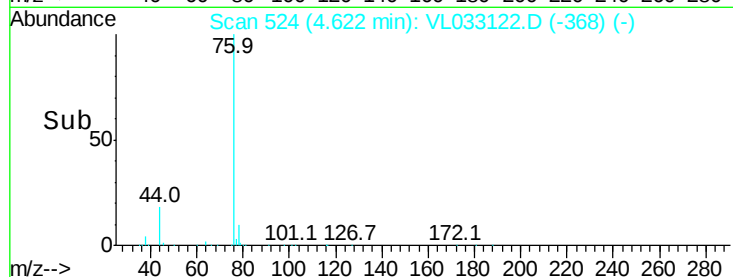
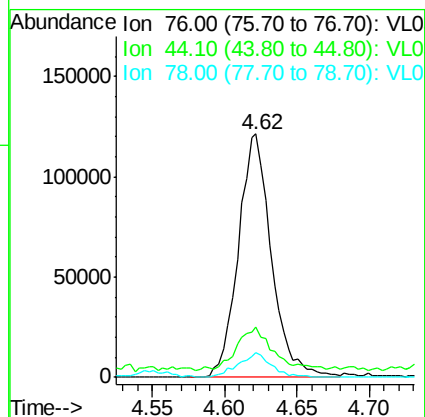
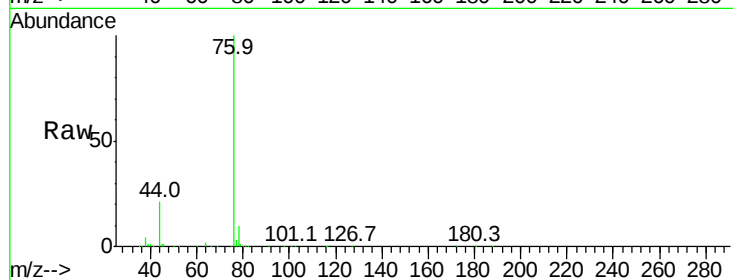
Tgt Ion: 76 Resp: 191964

Ion Ratio Lower Upper

76 100

44 23.2 15.0 22.4#

78 10.1 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 1.140 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.01 min

Lab File: VL033122.D

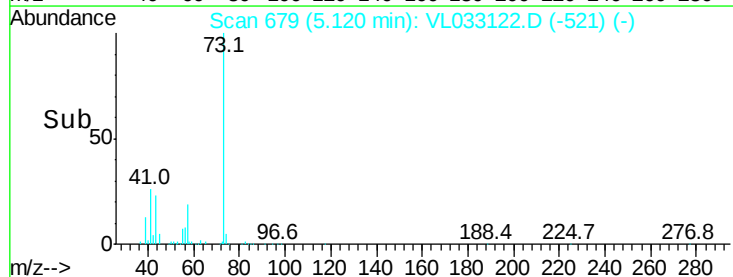
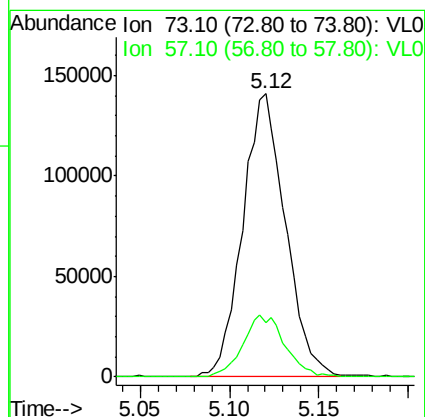
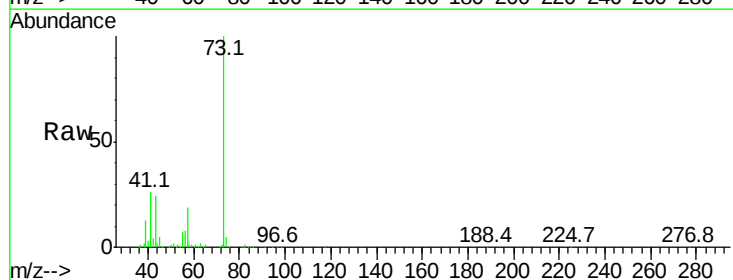
Acq: 28 Jan 2019 21:51

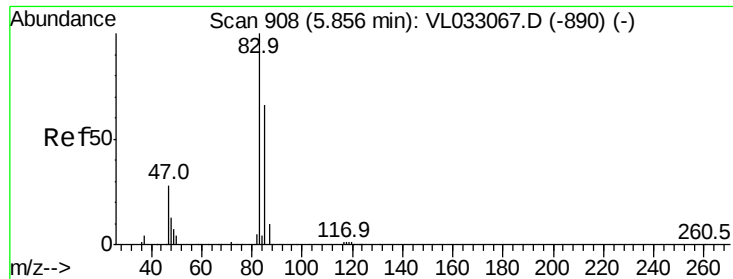
Tgt Ion: 73 Resp: 235998

Ion Ratio Lower Upper

73 100

57 21.6 17.6 26.4





#29

Chloroform

Concen: 1.114 ppbv

RT: 5.84 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

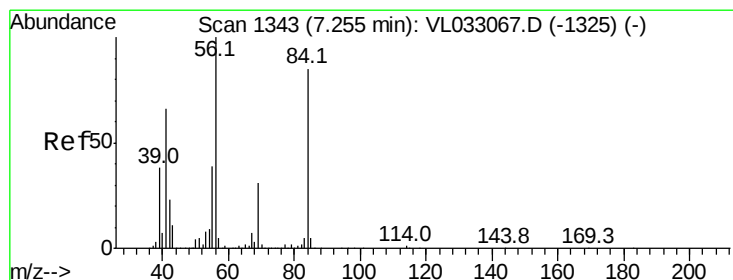
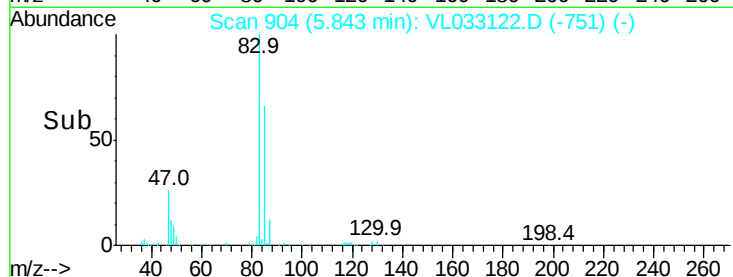
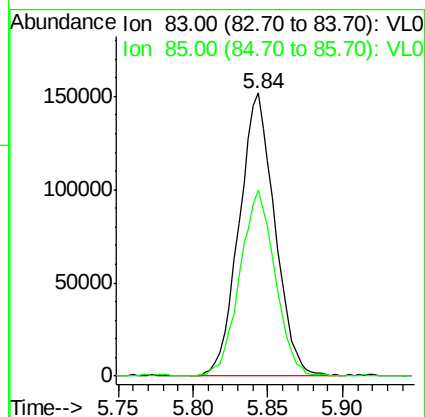
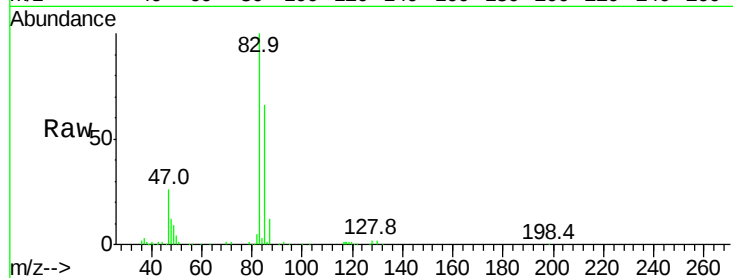
VSTDIC001

Tgt Ion: 83 Resp: 251882

Ion Ratio Lower Upper

83 100

85 65.8 50.4 75.6



#30

Cyclohexane

Concen: 1.116 ppbv

RT: 7.24 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

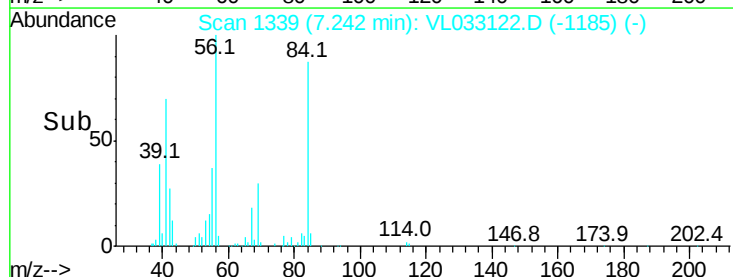
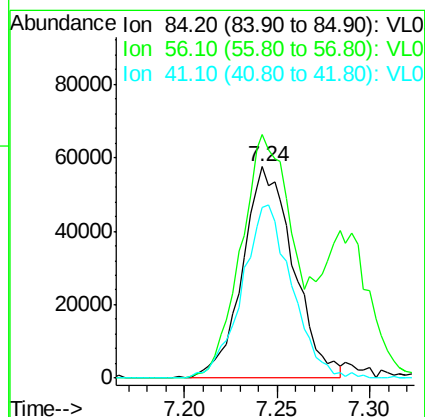
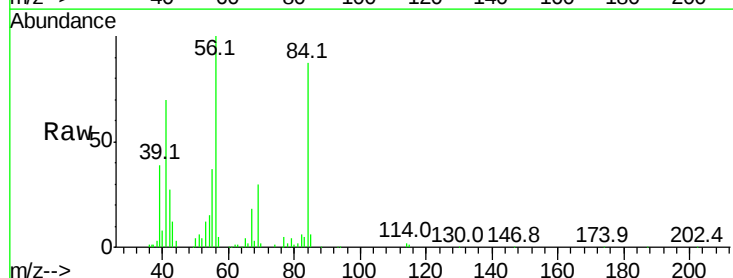
Tgt Ion: 84 Resp: 110335

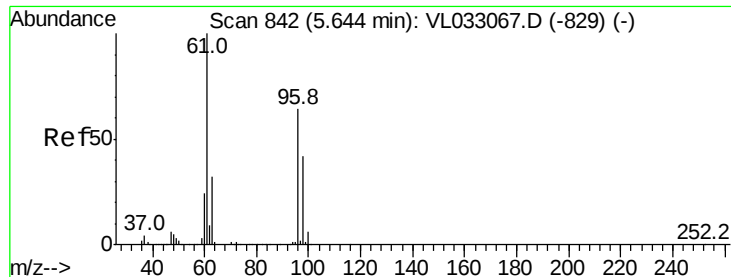
Ion Ratio Lower Upper

84 100

56 182.4 102.4 153.6#

41 80.9 62.7 94.1



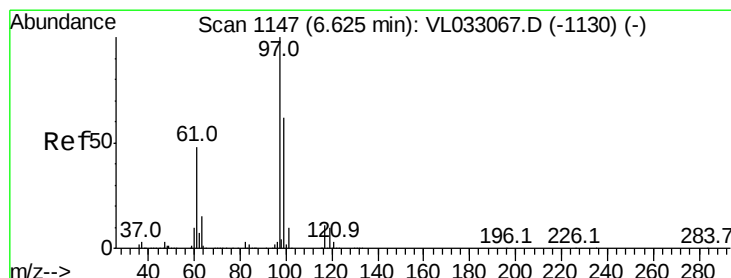
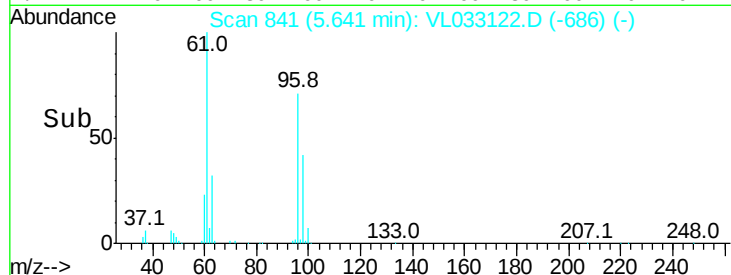
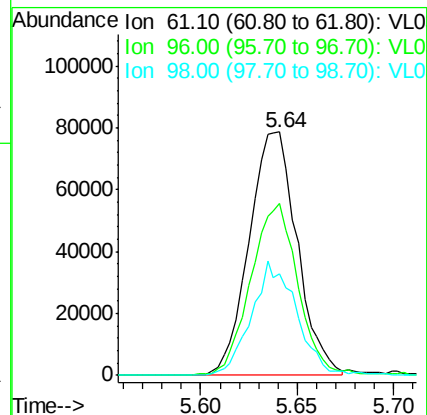
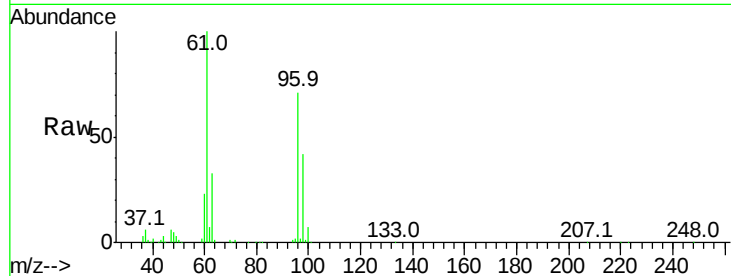


#31

cis-1,2-Dichloroethene
Concen: 1.106 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

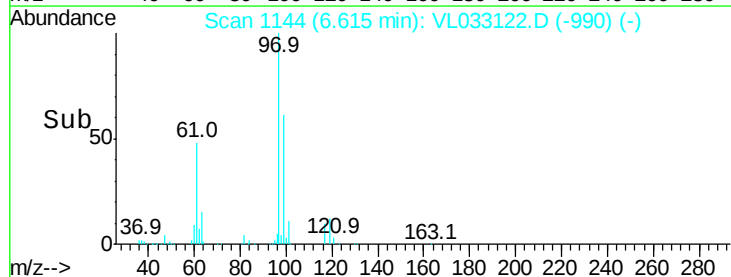
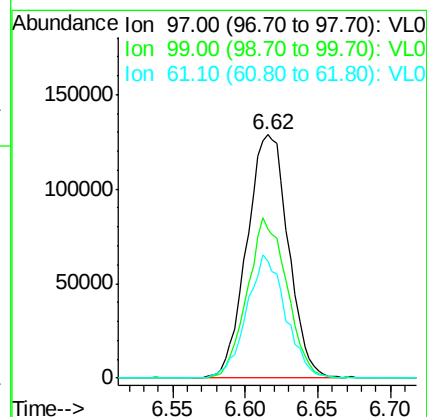
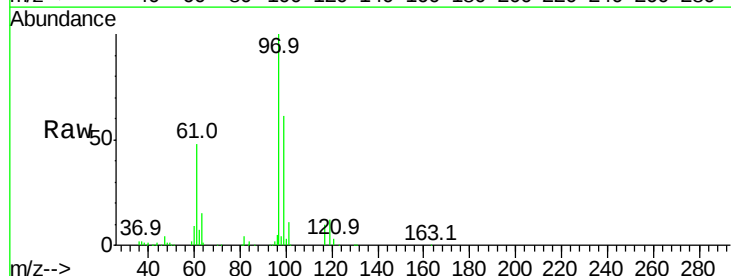
Tgt Ion	Ratio	Lower	Upper
61	100		
96	70.8	57.6	86.4
98	41.5	37.0	55.4

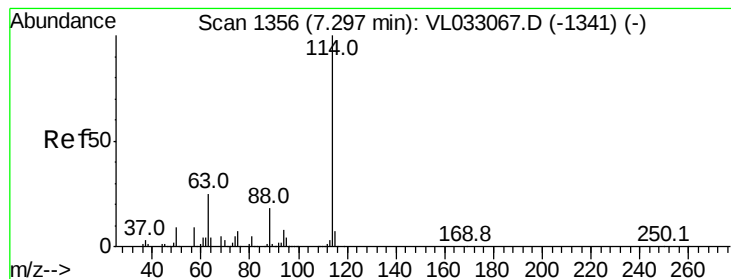


#32

1,1,1-Trichloroethane
Concen: 1.121 ppbv
RT: 6.62 min Scan# 1144
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.7	77.5
61	47.4	38.6	57.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

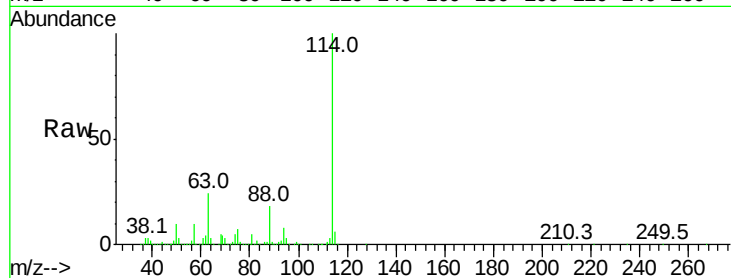
Tgt Ion:114 Resp: 3176946

Ion Ratio Lower Upper

114 100

63 24.0 19.8 29.8

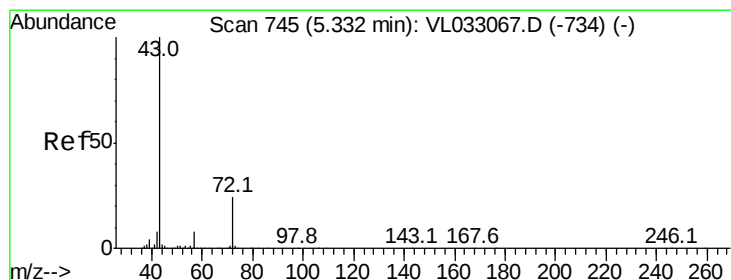
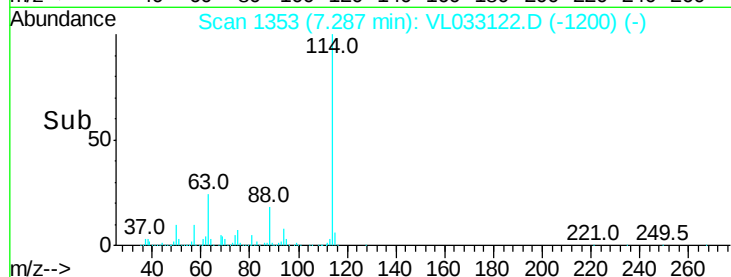
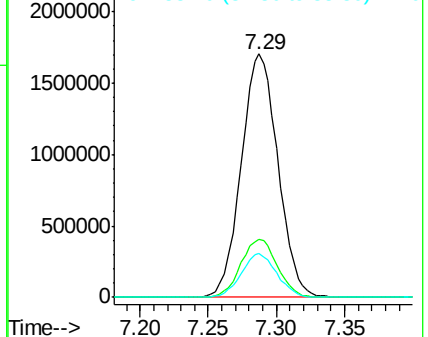
88 17.5 14.2 21.2



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.035 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033122.D

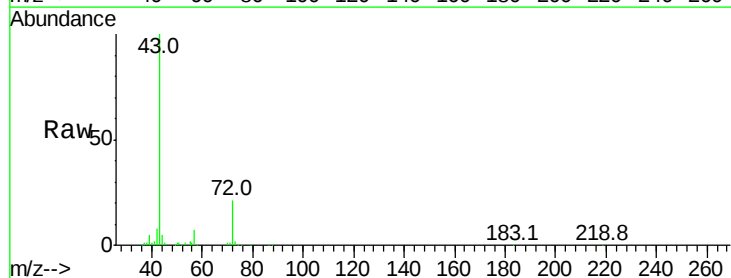
Acq: 28 Jan 2019 21:51

Tgt Ion: 43 Resp: 191008

Ion Ratio Lower Upper

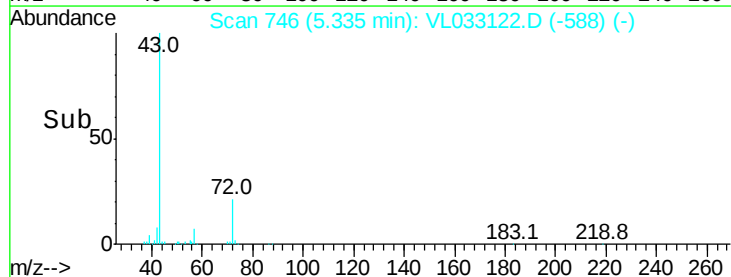
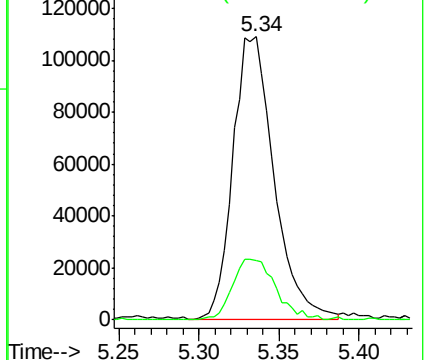
43 100

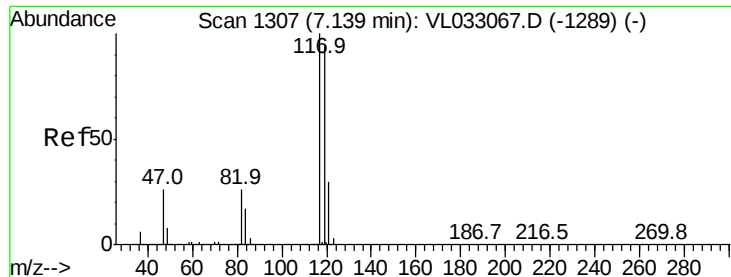
72 22.8 18.7 28.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 1.016 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

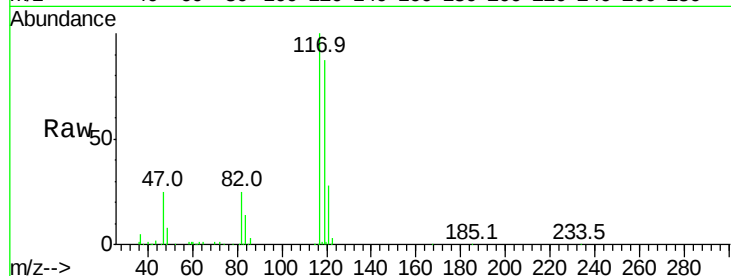
Tgt Ion: 117 Resp: 277156

Ion Ratio Lower Upper

117 100

119 86.6 75.8 113.6

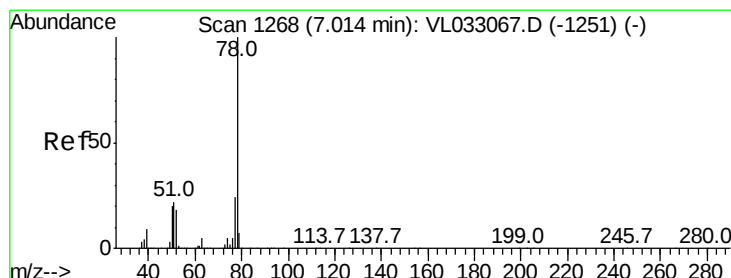
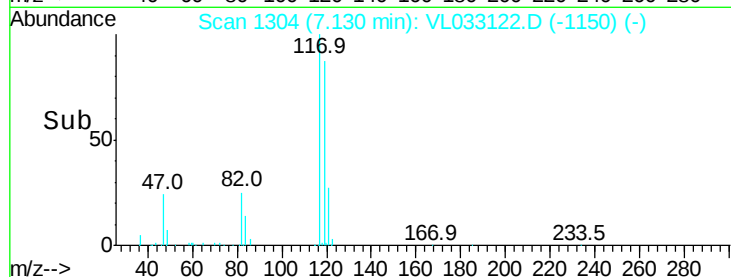
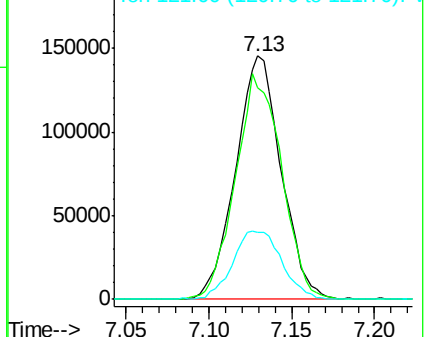
121 27.6 24.6 36.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.091 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

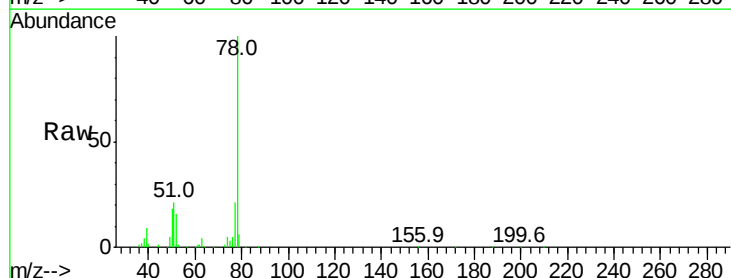
Tgt Ion: 78 Resp: 283836

Ion Ratio Lower Upper

78 100

77 21.0 18.5 27.7

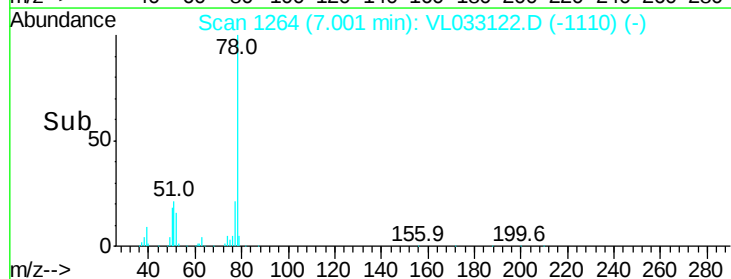
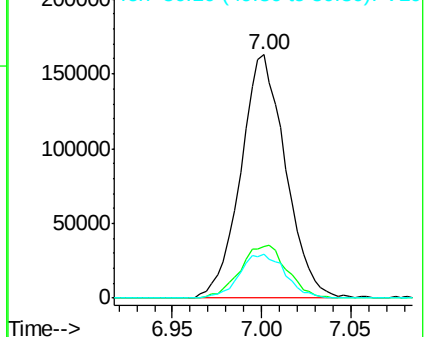
50 18.0 15.4 23.2

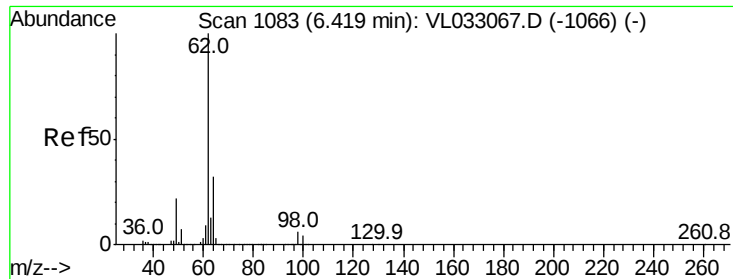


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 1.027 ppbv

RT: 6.41 min Scan# 1079

Delta R.T. -0.01 min

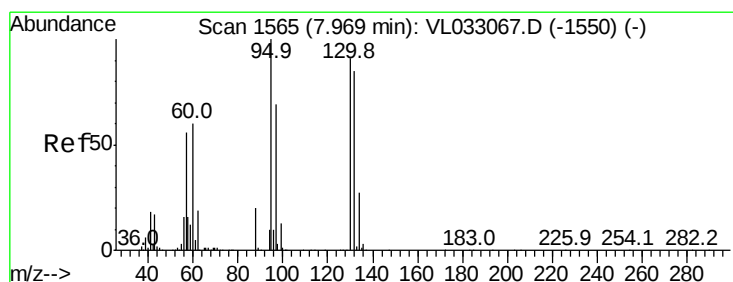
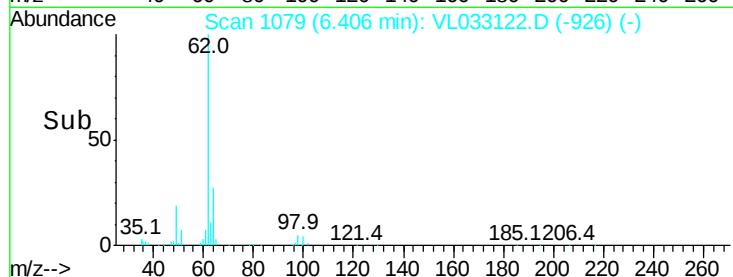
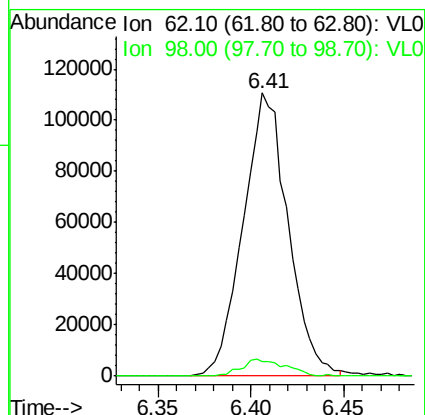
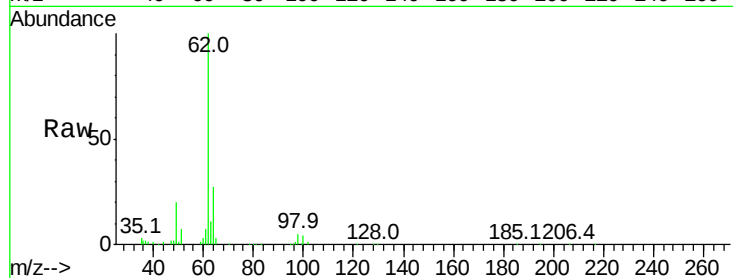
Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 62 Resp: 186519

Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.6	7.0



#38

Trichloroethene

Concen: 0.531 ppbv

RT: 7.95 min Scan# 1560

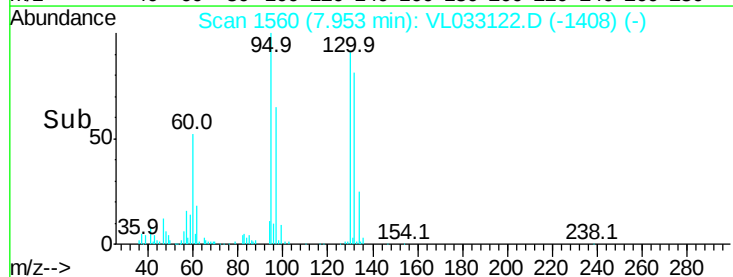
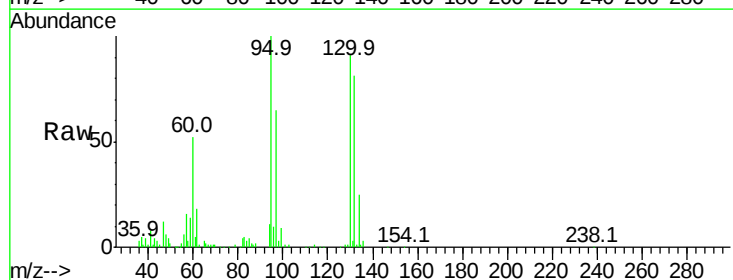
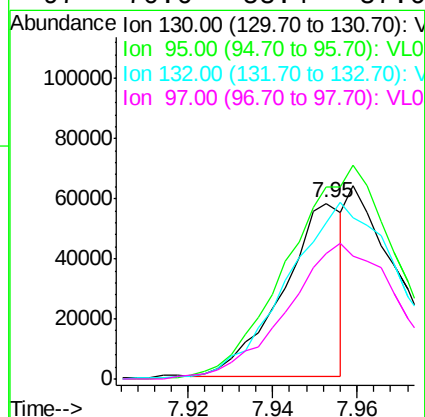
Delta R.T. -0.01 min

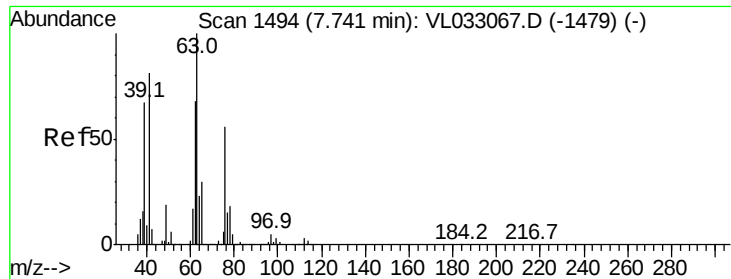
Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion: 130 Resp: 56838

Ion	Ratio	Lower	Upper
130	100		
95	108.8	94.0	141.0
132	88.8	79.7	119.5
97	70.6	58.4	87.6

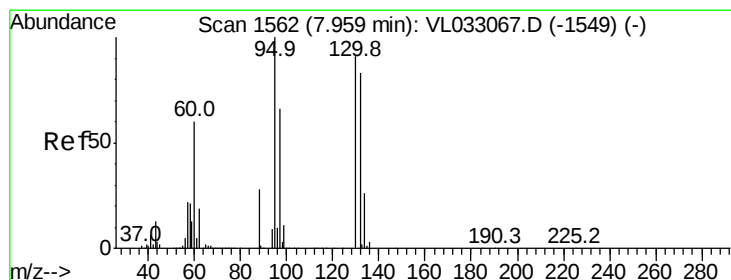
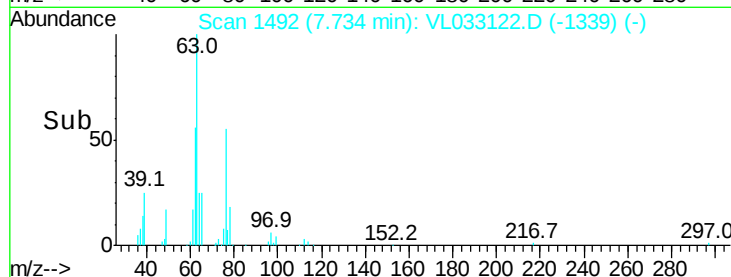
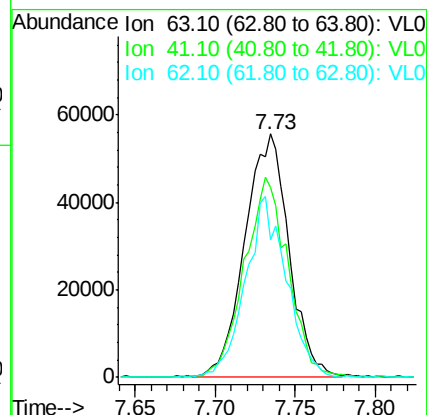
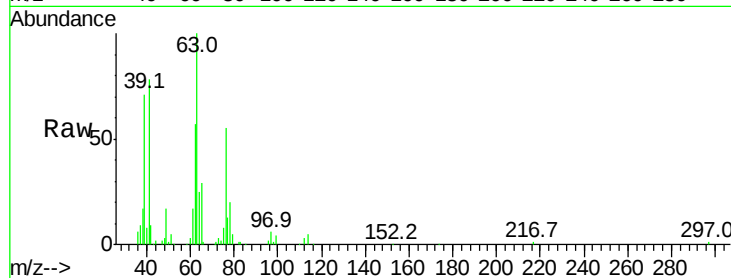




#39
 1,2-Dichloropropane
 Concen: 1.078 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

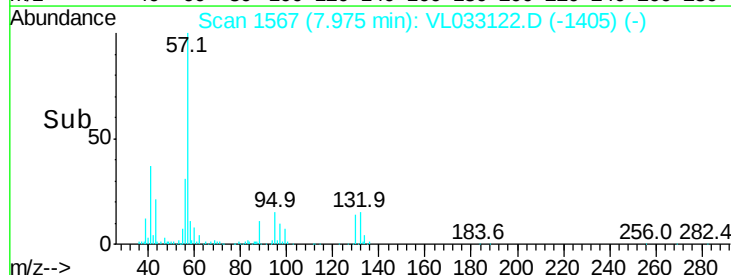
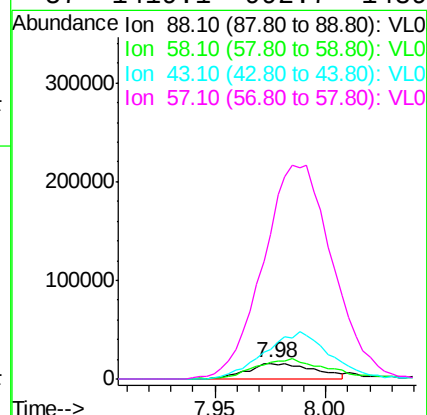
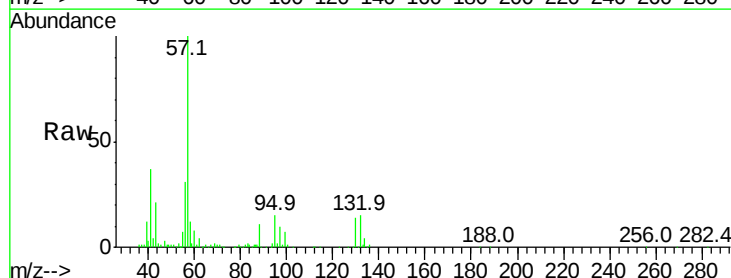
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

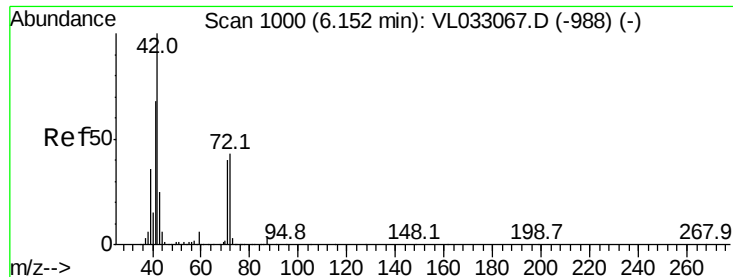
Tgt Ion: 63 Resp: 105362
 Ion Ratio Lower Upper
 63 100
 41 77.3 57.8 86.8
 62 56.6 54.6 82.0



#40
 1,4-Dioxane
 Concen: 0.908 ppbv
 RT: 7.98 min Scan# 1567
 Delta R.T. 0.02 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion: 88 Resp: 33678
 Ion Ratio Lower Upper
 88 100
 58 149.9 103.5 155.3
 43 300.0 217.8 326.8
 57 1419.1 992.7 1489.1





#41

Tetrahydrofuran

Concen: 1.061 ppbv

RT: 6.17 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

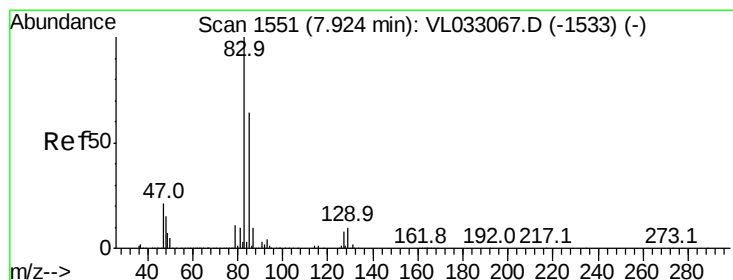
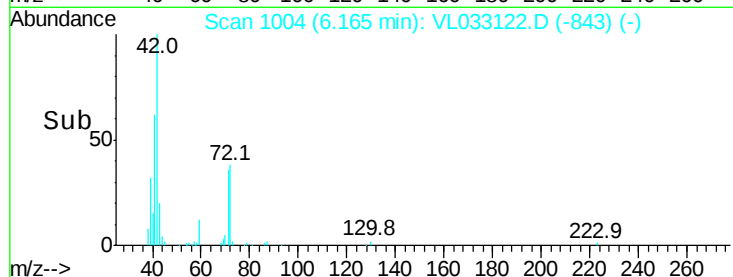
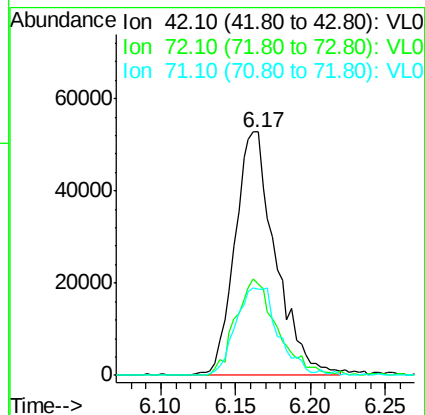
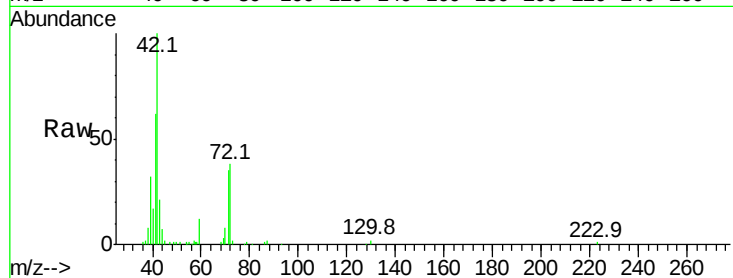
Tgt Ion: 42 Resp: 99637

Ion Ratio Lower Upper

42 100

72 41.2 33.8 50.8

71 38.2 31.6 47.4



#42

Bromodichloromethane

Concen: 1.018 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

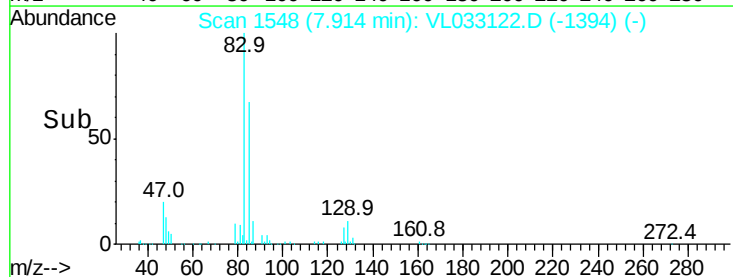
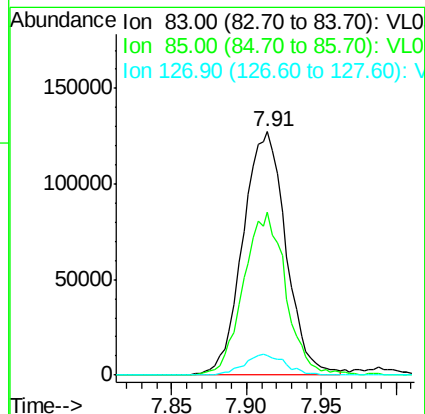
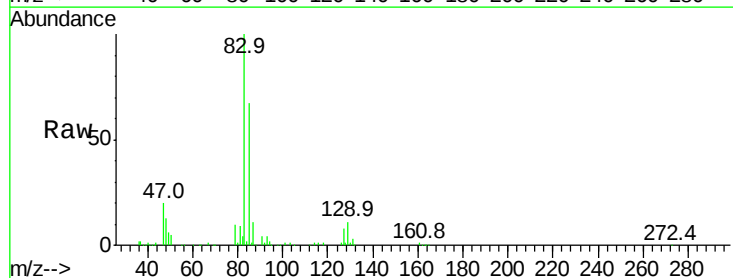
Tgt Ion: 83 Resp: 254021

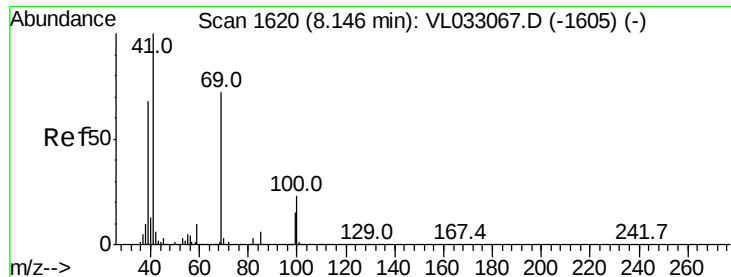
Ion Ratio Lower Upper

83 100

85 67.0 52.9 79.3

127 8.1 6.7 10.1





#43

Methyl Methacrylate

Concen: 1.029 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. 0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

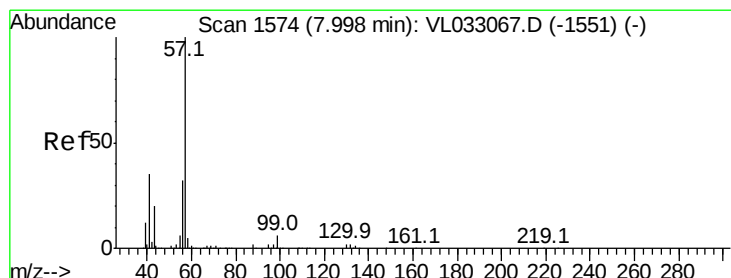
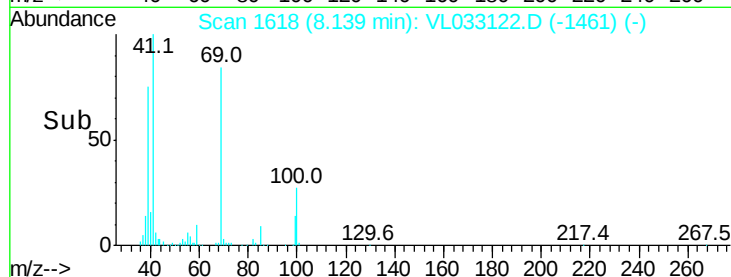
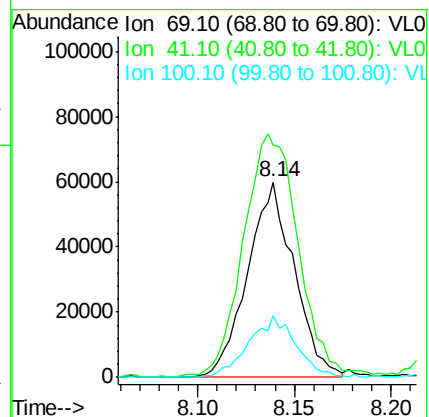
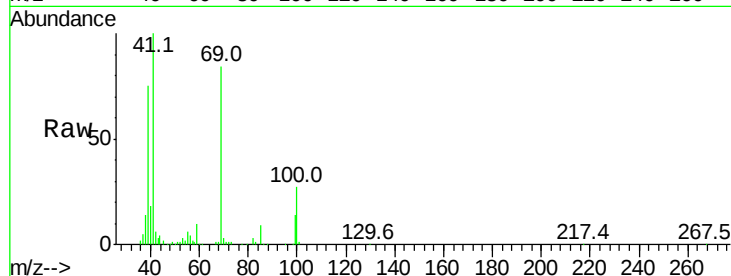
Tgt Ion: 69 Resp: 100469

Ion Ratio Lower Upper

69 100

41 147.2 113.9 170.9

100 31.9 26.2 39.4



#44

2,2,4-Trimethylpentane

Concen: 1.081 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

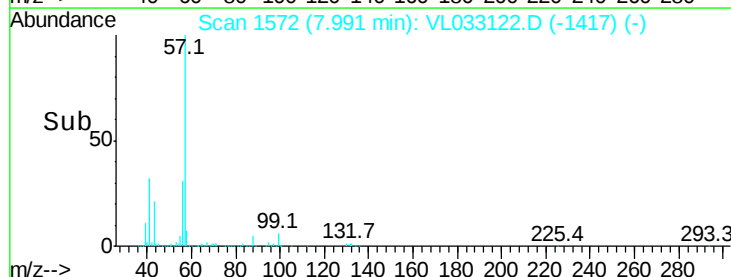
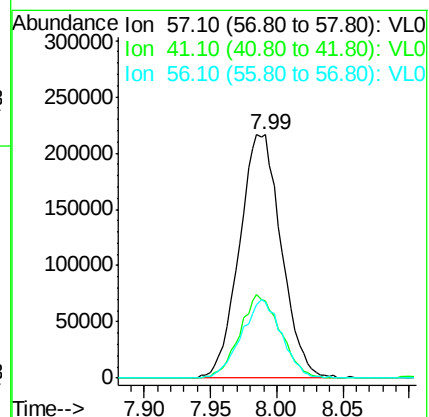
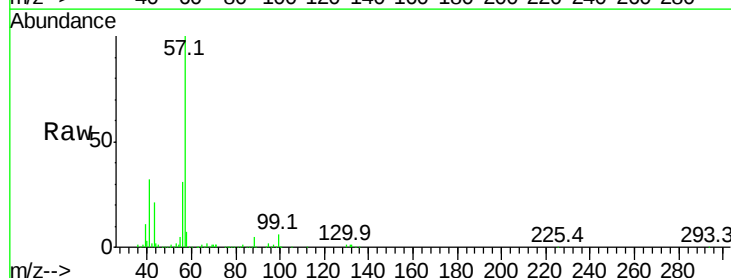
Tgt Ion: 57 Resp: 476376

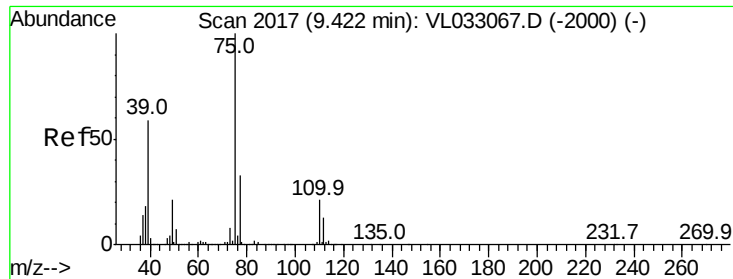
Ion Ratio Lower Upper

57 100

41 33.5 26.1 39.1

56 30.9 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 0.883 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

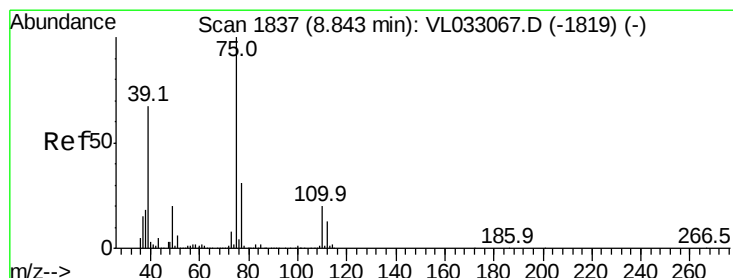
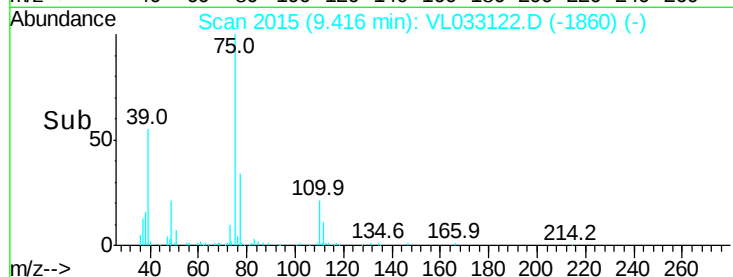
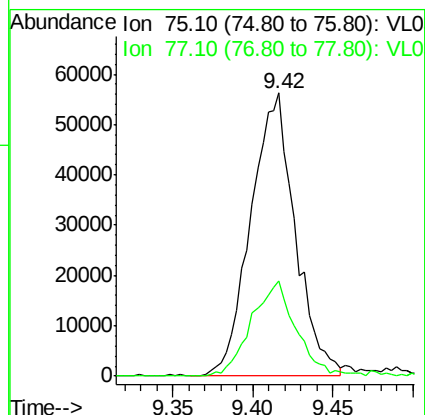
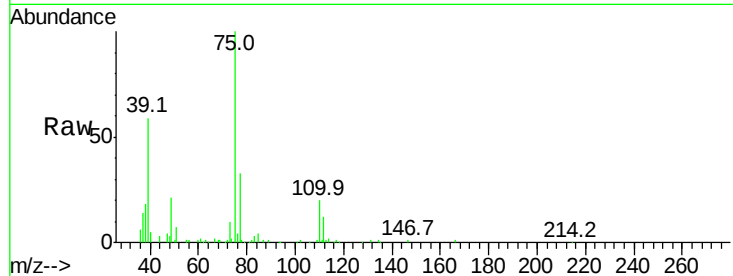
Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 75 Resp: 107348

Ion	Ratio	Lower	Upper
75	100		
77	33.4	24.9	37.3



#46

cis-1,3-Dichloropropene

Concen: 0.983 ppbv

RT: 8.83 min Scan# 1834

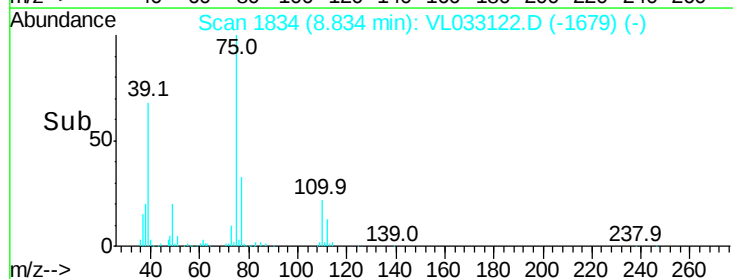
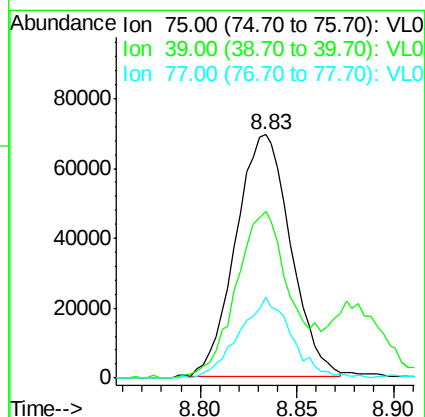
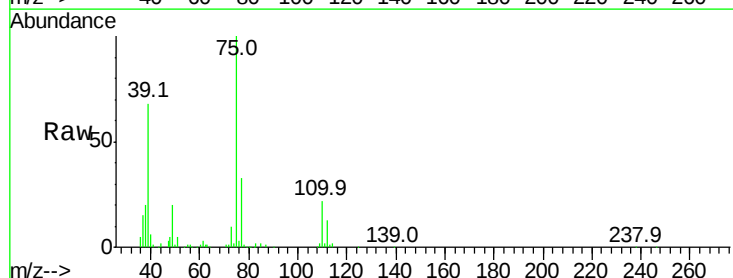
Delta R.T. -0.00 min

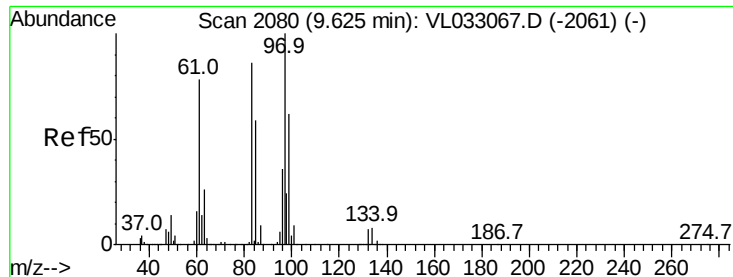
Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion: 75 Resp: 136373

Ion	Ratio	Lower	Upper
75	100		
39	67.5	52.0	78.0
77	33.3	25.5	38.3

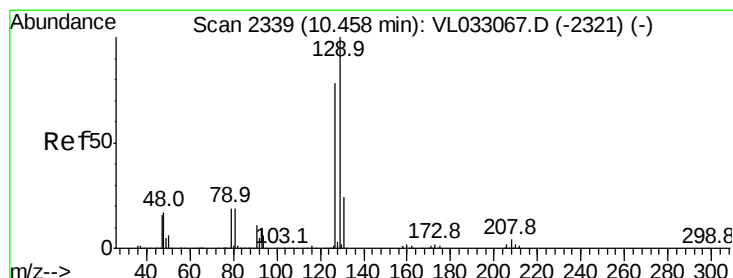
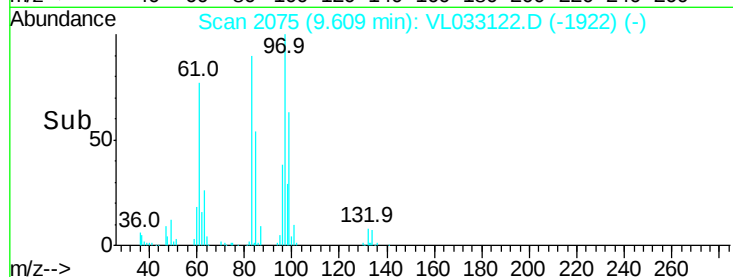
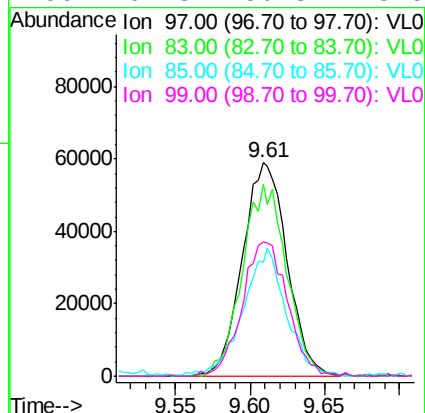
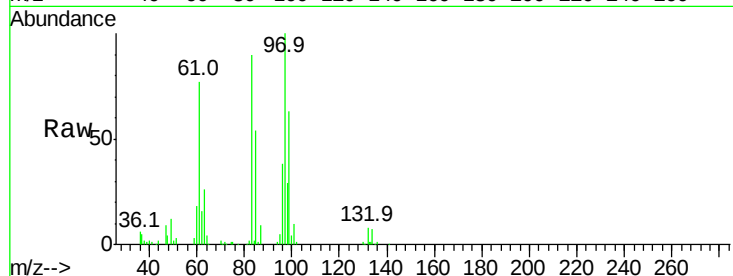




#47
 1,1,2-Trichloroethane
 Concen: 1.068 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

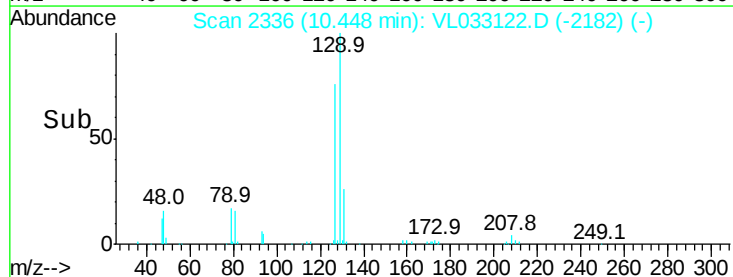
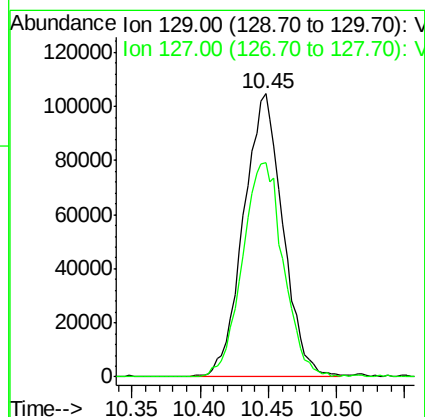
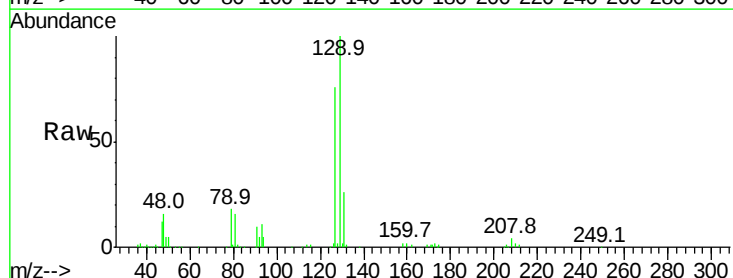
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

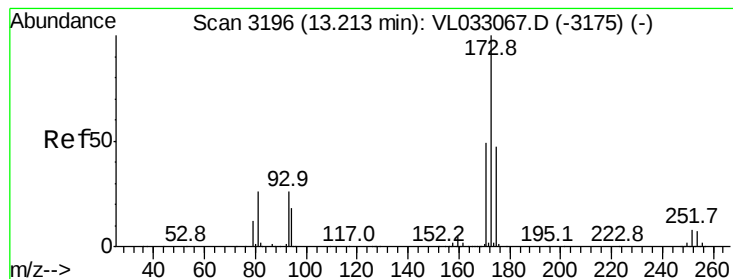
Tgt Ion: 97 Resp: 121968
 Ion Ratio Lower Upper
 97 100
 83 89.6 71.4 107.2
 85 53.6 47.2 70.8
 99 62.8 50.3 75.5



#48
 Dibromochloromethane
 Concen: 1.038 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion: 129 Resp: 209421
 Ion Ratio Lower Upper
 129 100
 127 79.0 39.3 117.9





#49

Bromoform

Concen: 0.889 ppbv

RT: 13.19 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

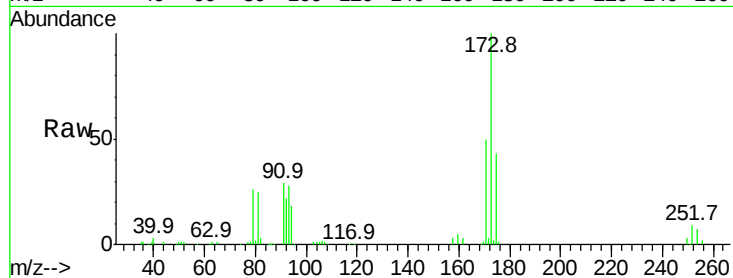
Tgt Ion: 173 Resp: 156660

Ion Ratio Lower Upper

173 100

175 48.7 38.9 58.3

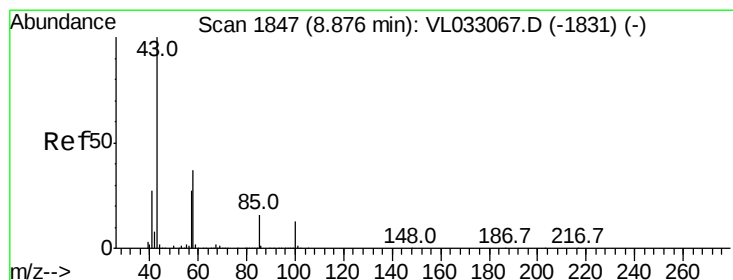
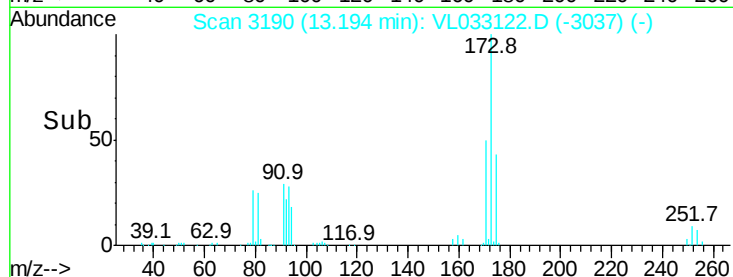
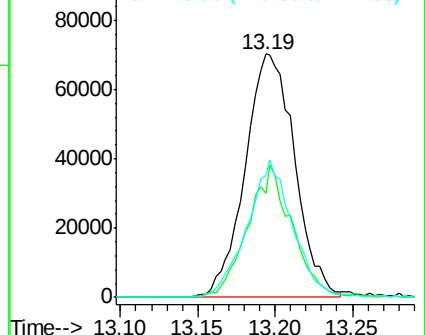
171 52.0 41.8 62.6



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 1.060 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. 0.01 min

Lab File: VL033122.D

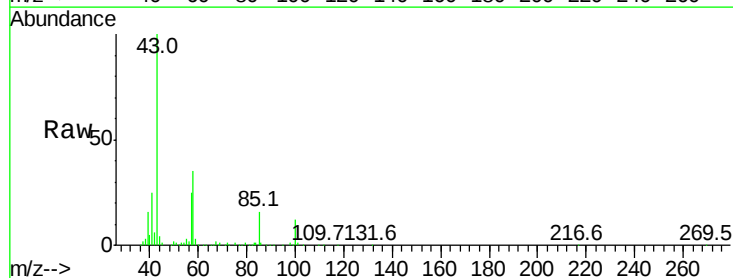
Acq: 28 Jan 2019 21:51

Tgt Ion: 43 Resp: 247950

Ion Ratio Lower Upper

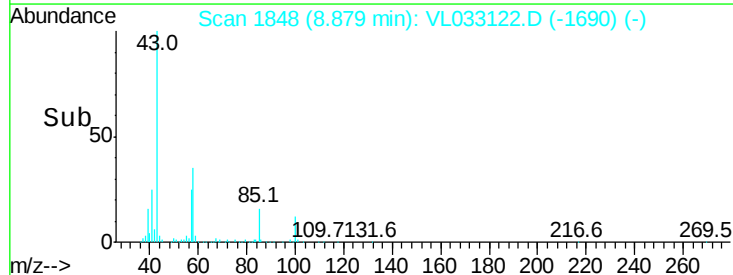
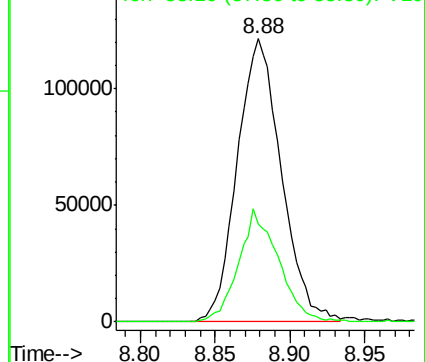
43 100

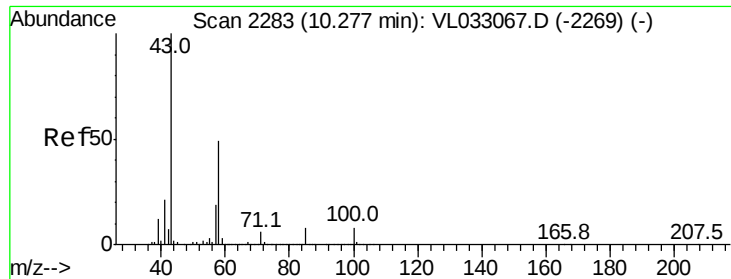
58 36.4 29.4 44.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.954 ppbv

RT: 10.29 min Scan# 2286

Delta R.T. 0.02 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

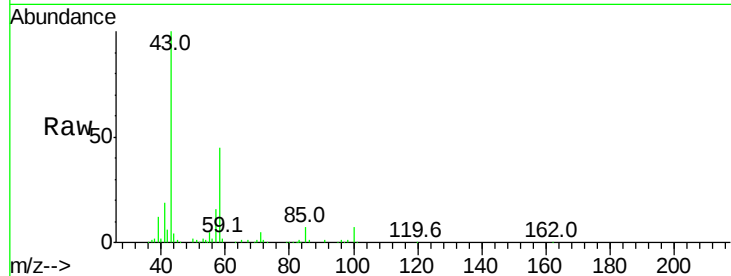
Tgt Ion: 43 Resp: 161474

Ion Ratio Lower Upper

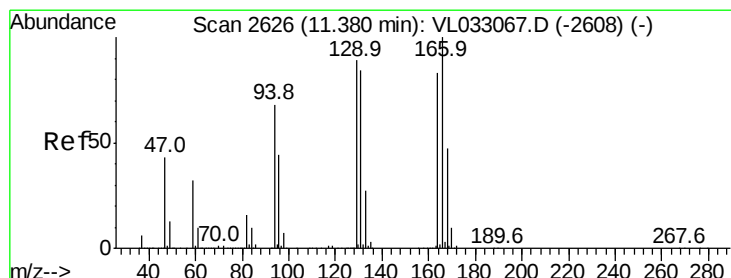
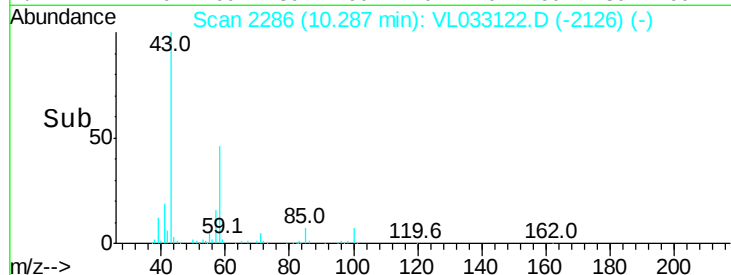
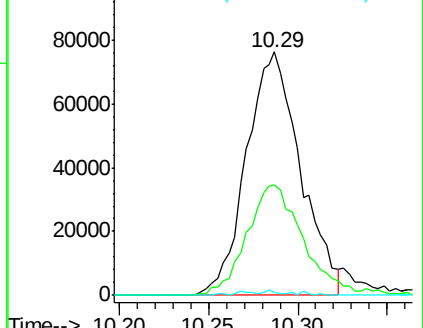
43 100

58 48.6 39.5 59.3

98 1.7 0.3 0.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 1.104 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Tgt Ion: 164 Resp: 101515

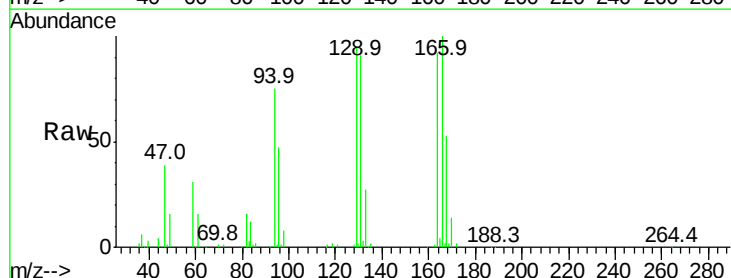
Ion Ratio Lower Upper

164 100

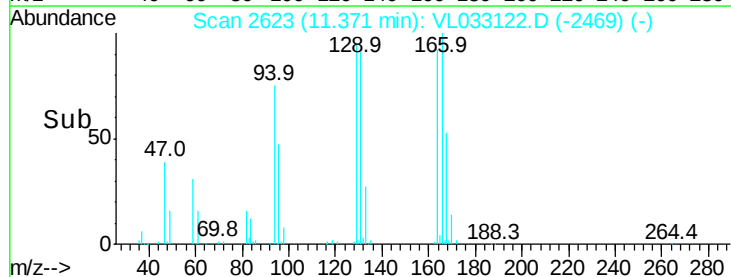
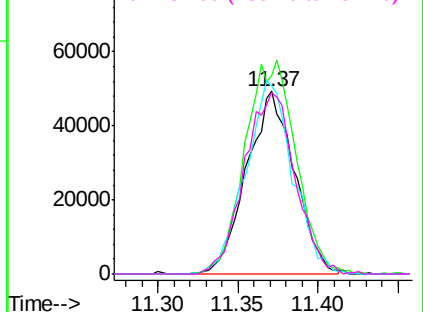
166 108.5 101.3 151.9

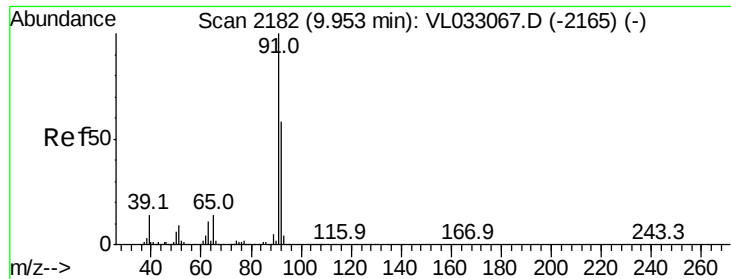
129 103.3 83.3 124.9

131 99.2 82.0 123.0



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 1.054 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

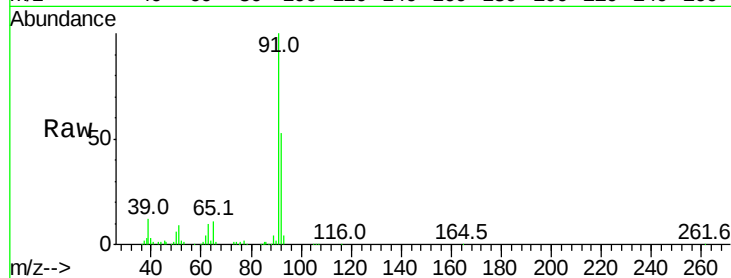
VSTDIC001

Tgt Ion: 91 Resp: 293887

Ion Ratio Lower Upper

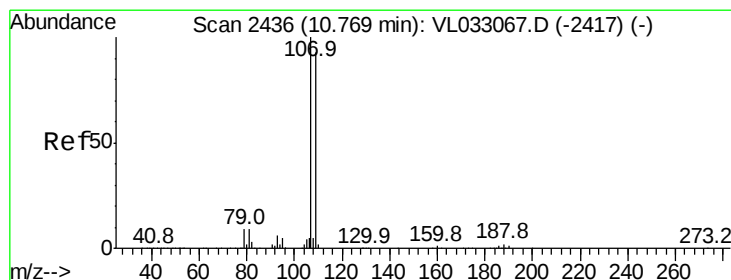
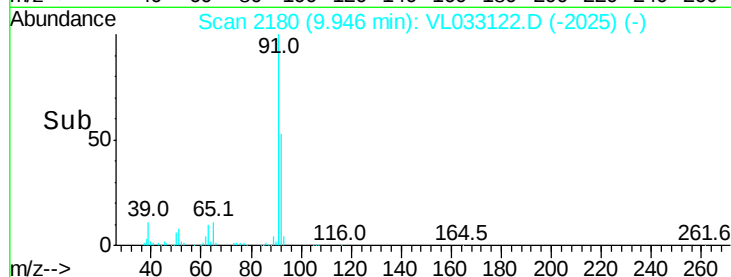
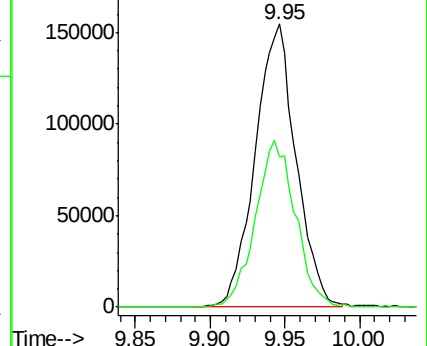
91 100

92 57.9 47.9 71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 1.040 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033122.D

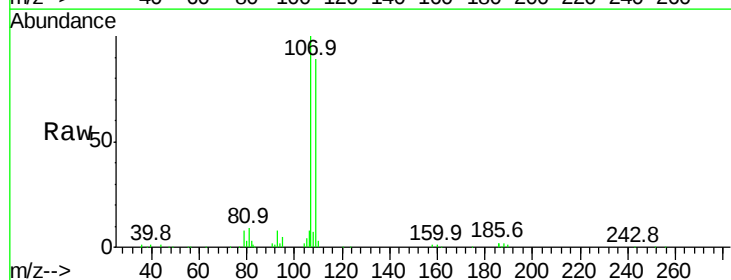
Acq: 28 Jan 2019 21:51

Tgt Ion: 107 Resp: 171093

Ion Ratio Lower Upper

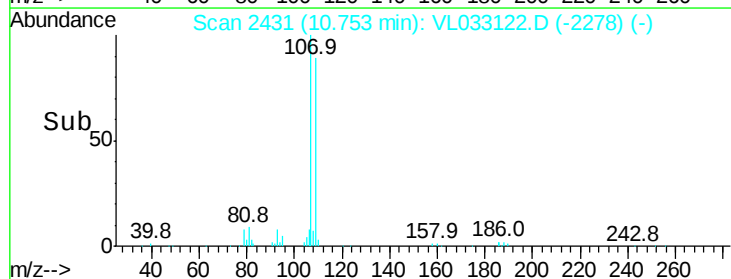
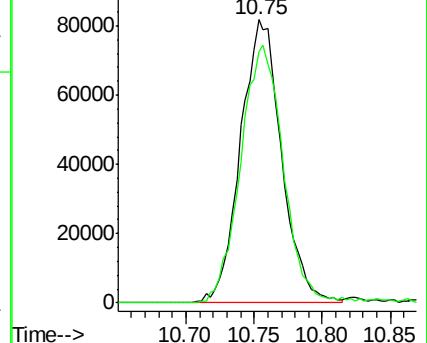
107 100

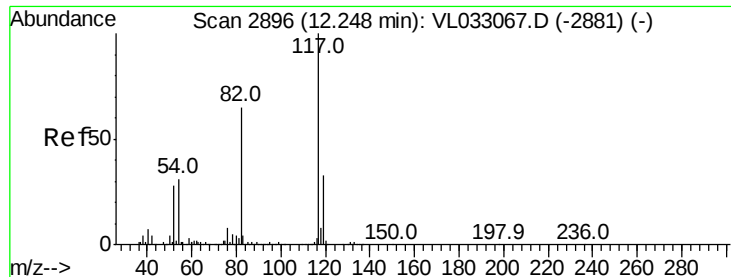
109 88.3 75.8 113.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

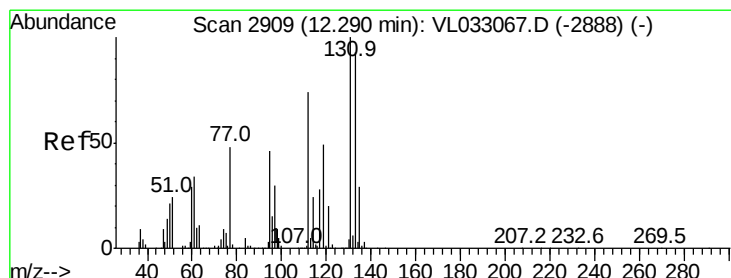
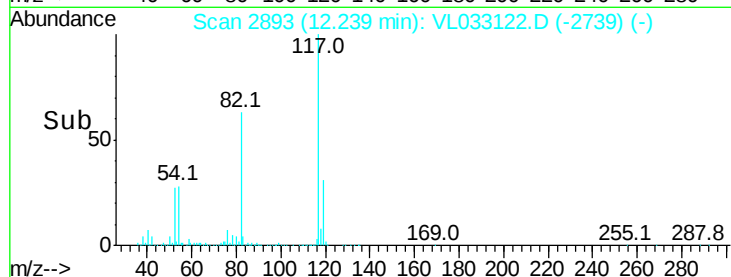
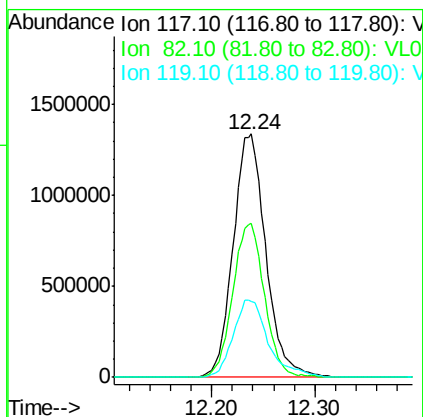
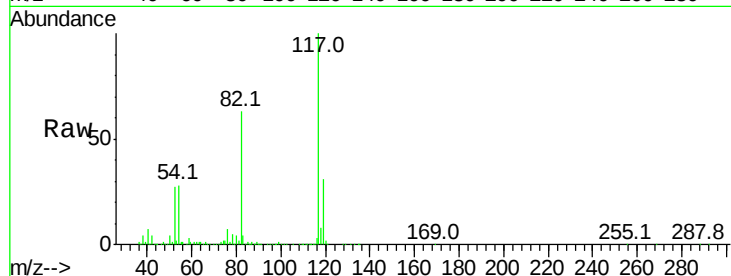




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

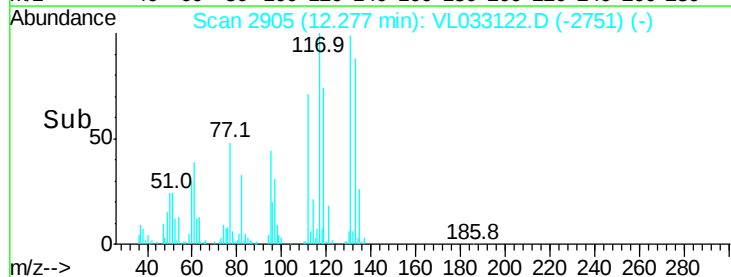
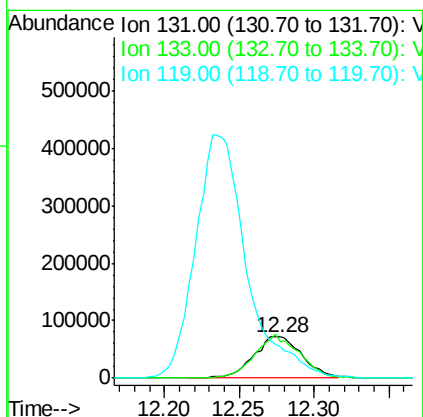
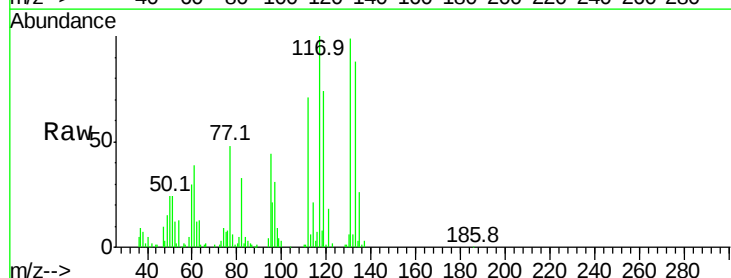
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

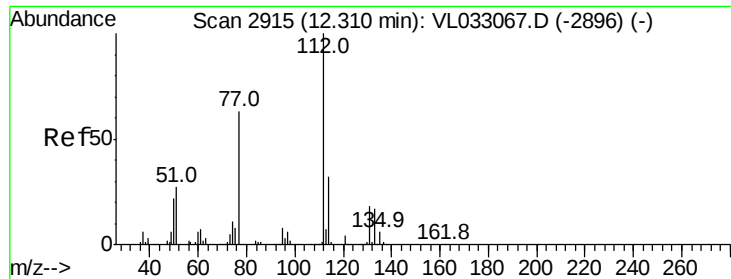
Tgt Ion:117 Resp: 2956177
Ion Ratio Lower Upper
117 100
82 61.7 48.3 72.5
119 34.3 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 1.058 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion:131 Resp: 161604
Ion Ratio Lower Upper
131 100
133 97.4 76.6 115.0
119 628.1 44.6 66.8#





#57

Chlorobenzene

Concen: 1.067 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

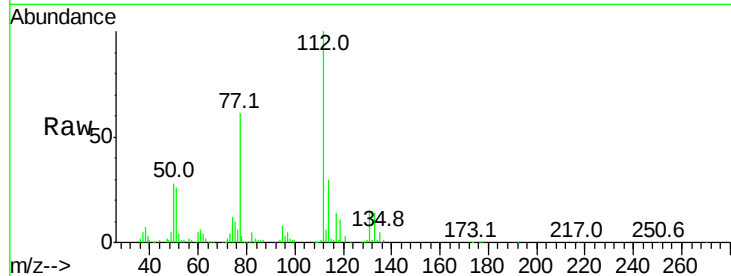
Tgt Ion: 112 Resp: 263178

Ion Ratio Lower Upper

112 100

77 61.6 51.6 77.4

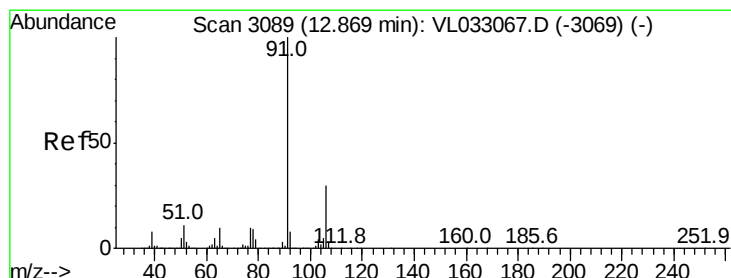
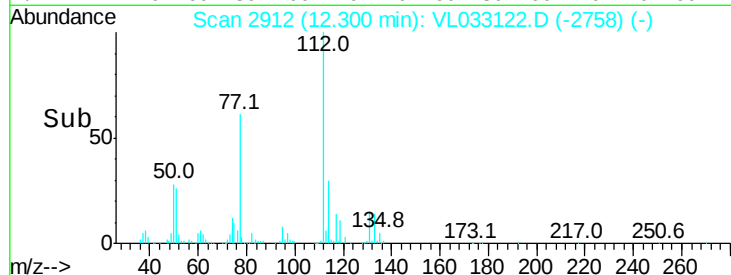
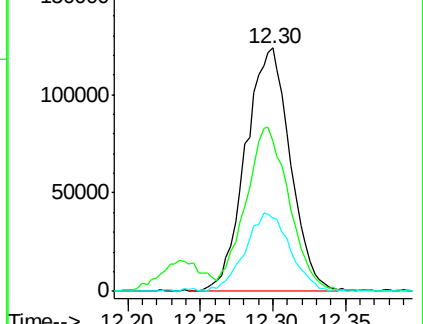
114 29.9 27.9 34.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.945 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL033122.D

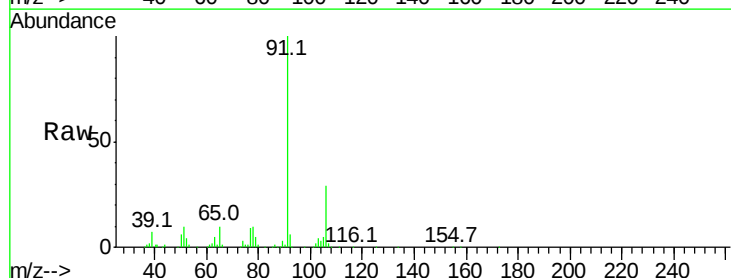
Acq: 28 Jan 2019 21:51

Tgt Ion: 91 Resp: 352792

Ion Ratio Lower Upper

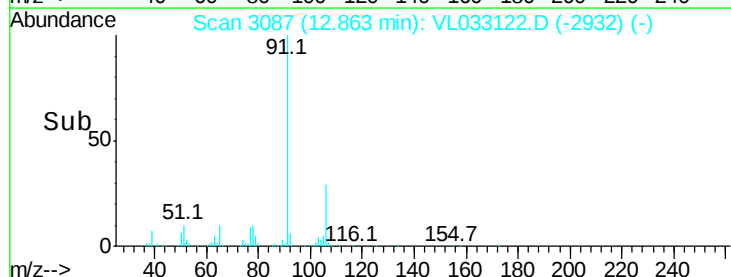
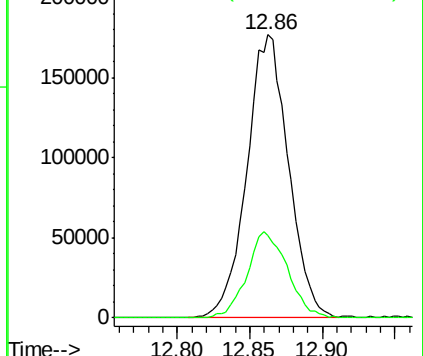
91 100

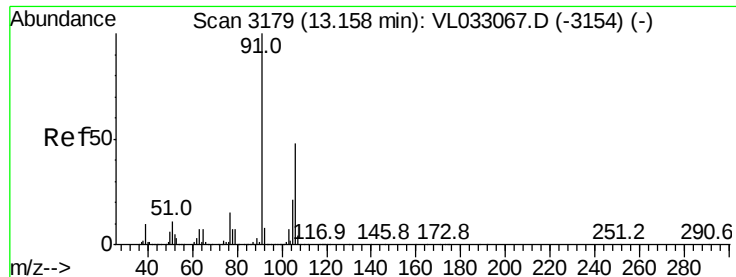
106 29.1 24.4 36.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

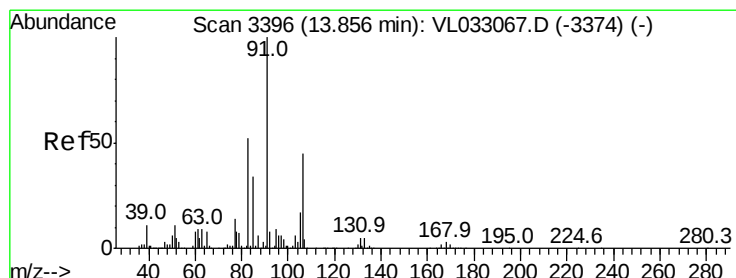
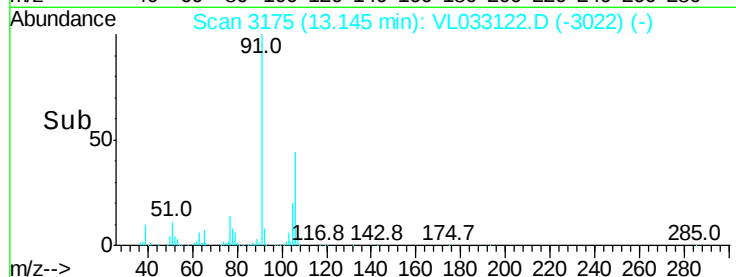
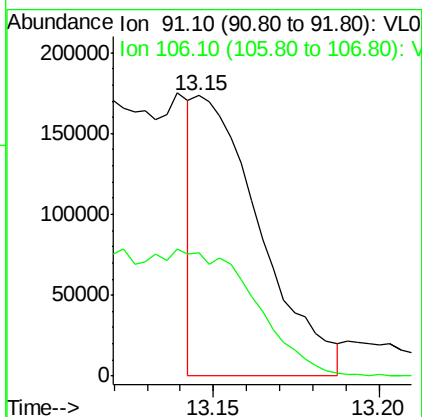
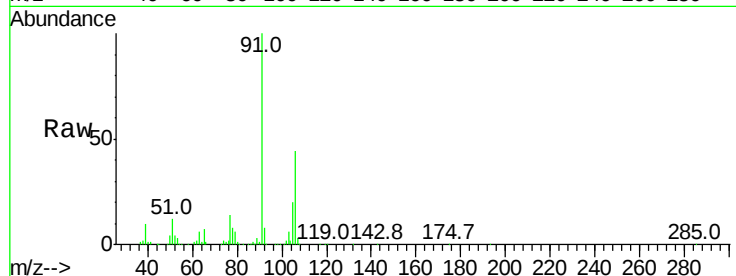




#59
m/p-Xylene
Concen: 0.686 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.01 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

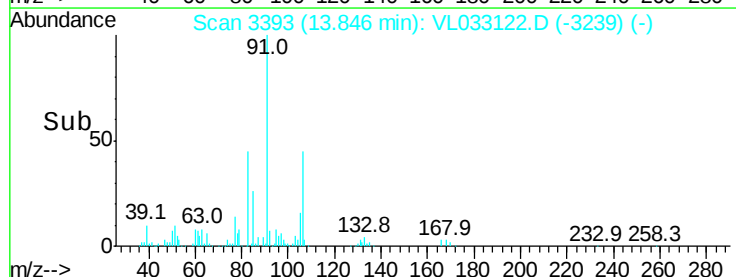
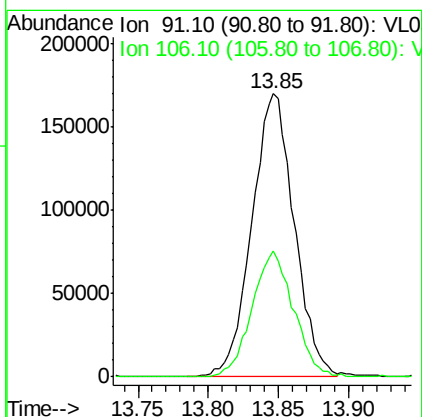
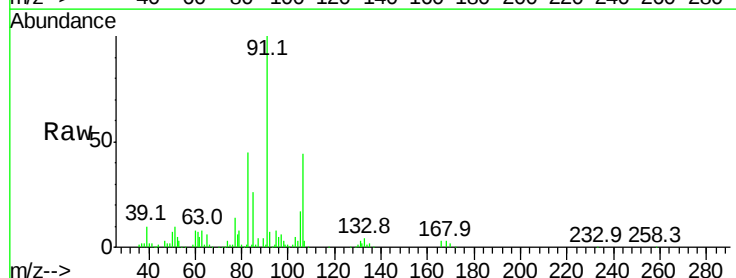
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

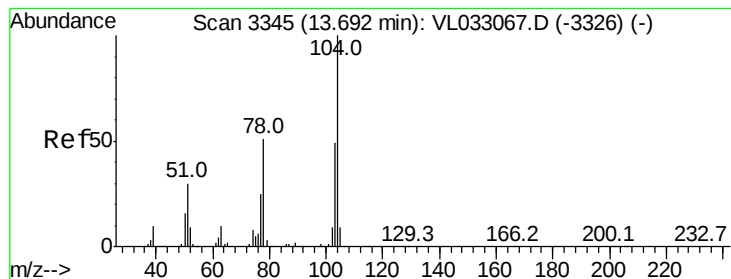
Tgt Ion: 91 Resp: 236766
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 1.056 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion: 91 Resp: 356778
Ion Ratio Lower Upper
91 100
106 43.7 22.6 67.8





#61

Styrene

Concen: 0.990 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

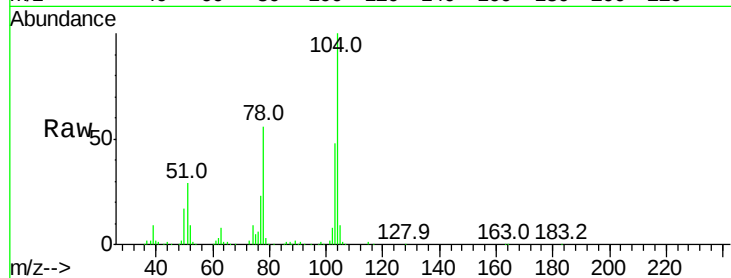
Tgt Ion:104 Resp: 213568

Ion Ratio Lower Upper

104 100

78 52.4 41.4 62.0

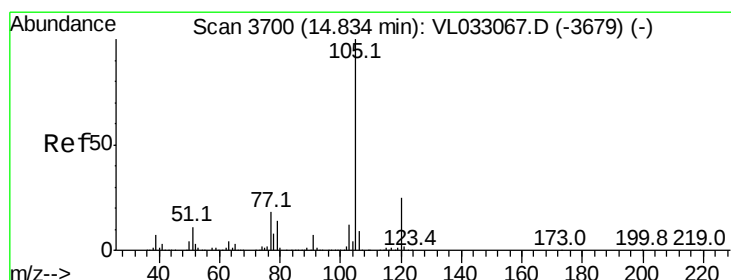
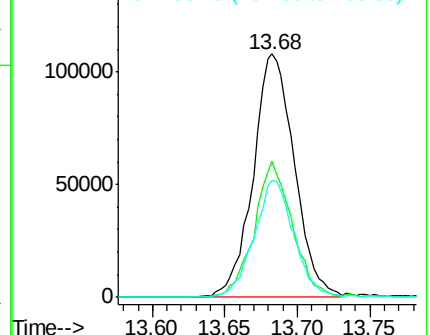
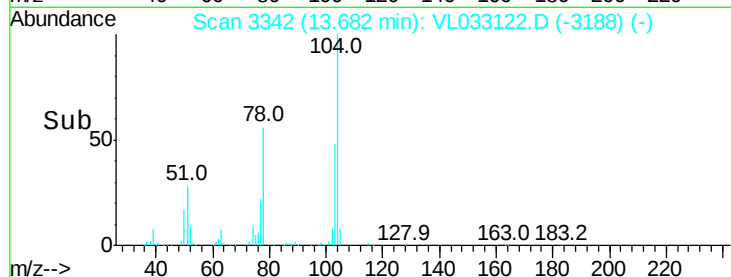
103 47.2 37.8 56.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.977 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL033122.D

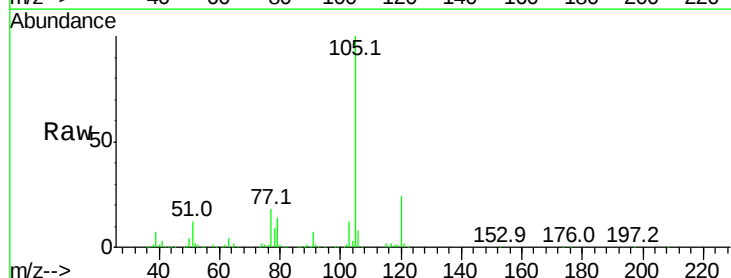
Acq: 28 Jan 2019 21:51

Tgt Ion:105 Resp: 469951

Ion Ratio Lower Upper

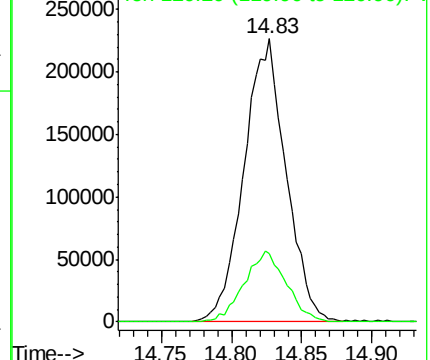
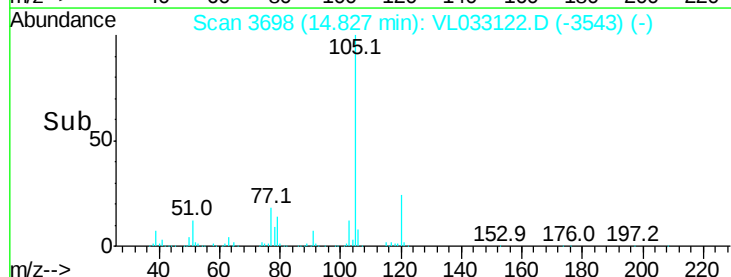
105 100

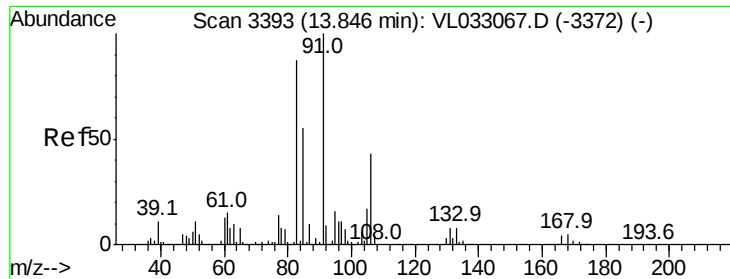
120 25.2 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

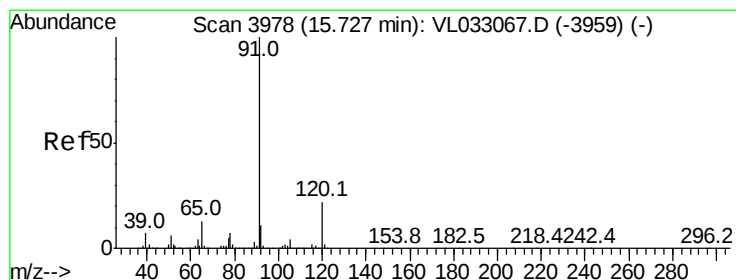
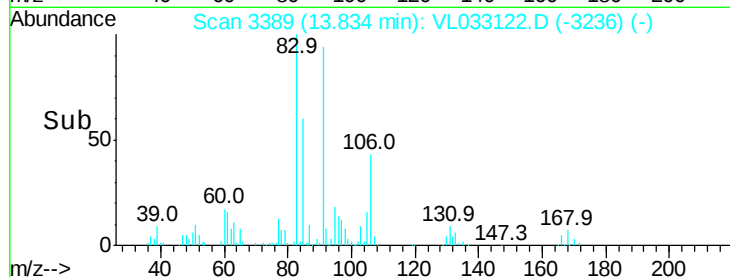
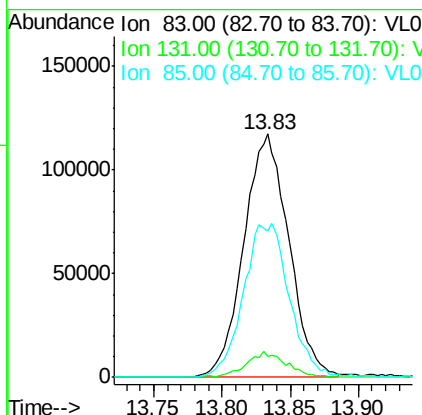
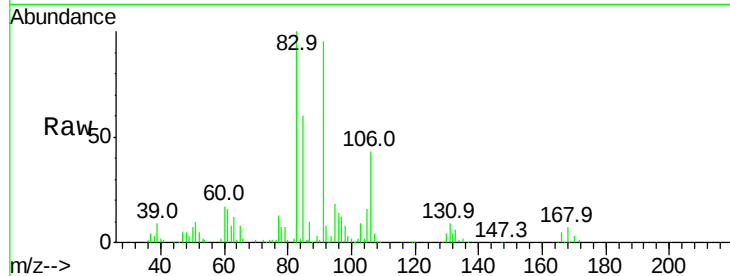




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.070 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

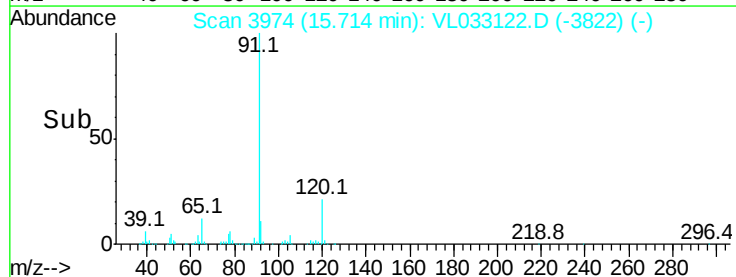
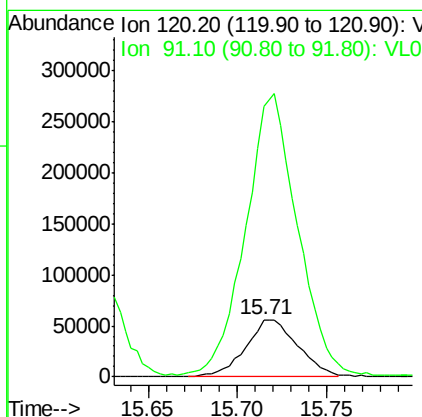
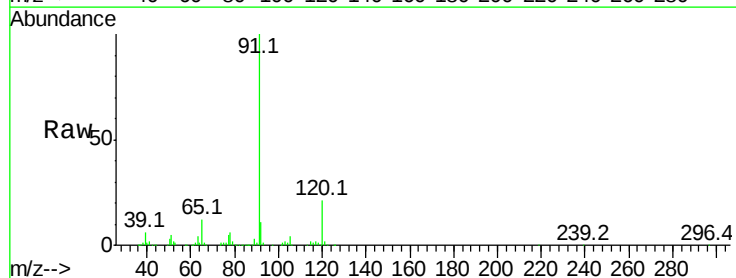
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

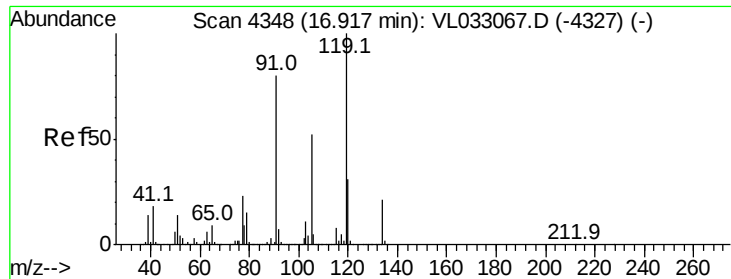
Tgt Ion: 83 Resp: 268639
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.9 14.6
 85 64.6 32.5 97.4



#64
 n-propylbenzene
 Concen: 0.935 ppbv
 RT: 15.71 min Scan# 3974
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion: 120 Resp: 114241
 Ion Ratio Lower Upper
 120 100
 91 502.5 375.7 563.5

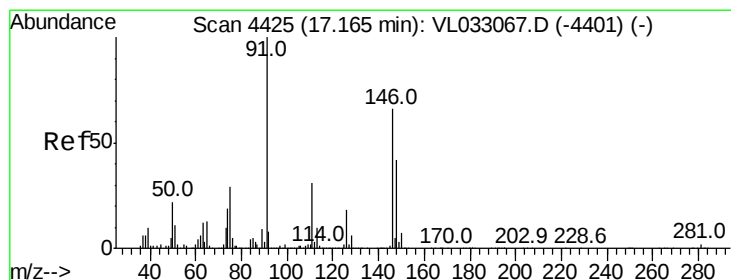
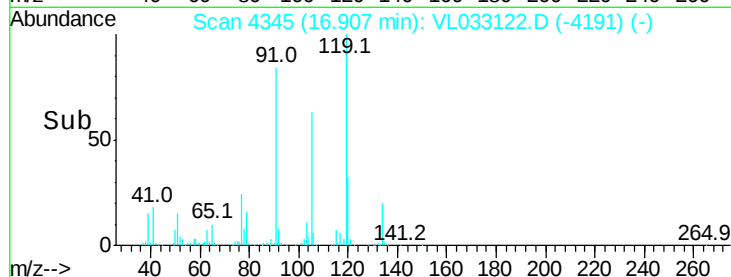
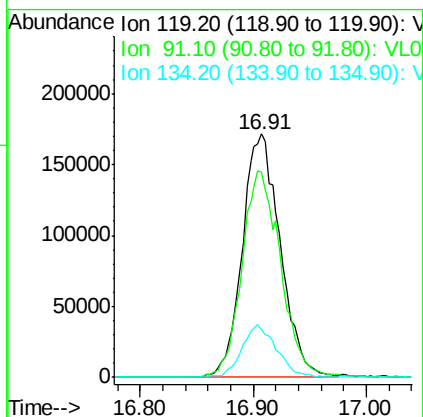
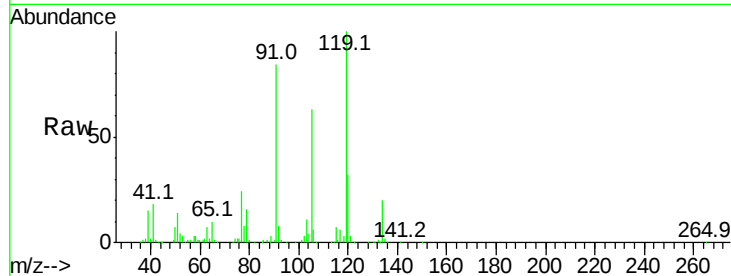




#65
 tert-Butylbenzene
 Concen: 0.938 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

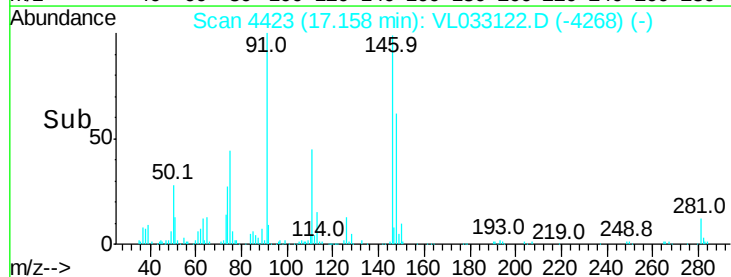
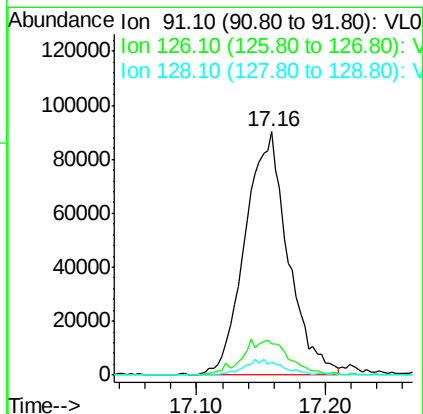
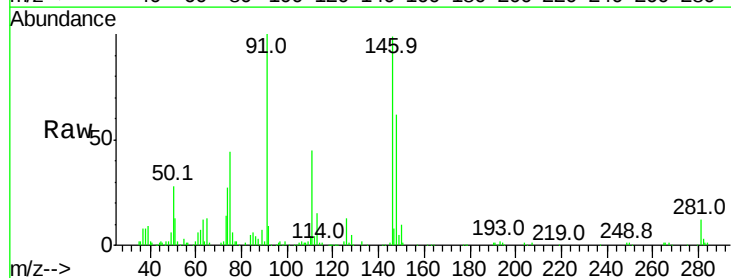
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

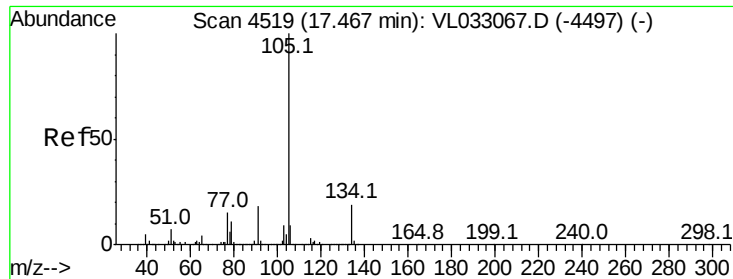
Tgt Ion: 119 Resp: 399462
 Ion Ratio Lower Upper
 119 100
 91 86.9 64.5 96.7
 134 19.9 15.7 23.5



#66
 Benzyl Chloride
 Concen: 0.852 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion: 91 Resp: 206852
 Ion Ratio Lower Upper
 91 100
 126 16.2 14.3 21.5
 128 6.1 4.6 7.0

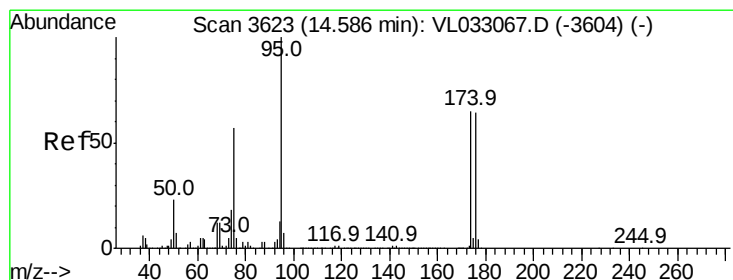
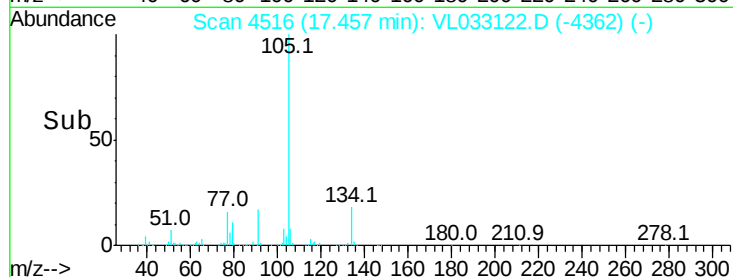
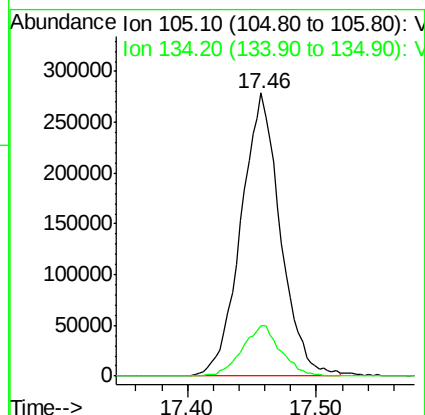
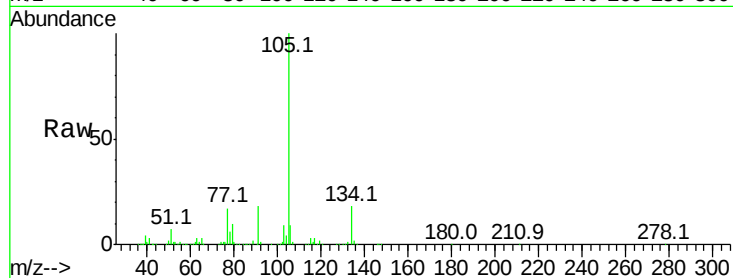




#67
 sec-Butylbenzene
 Concen: 0.968 ppbv
 RT: 17.46 min Scan# 4516
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

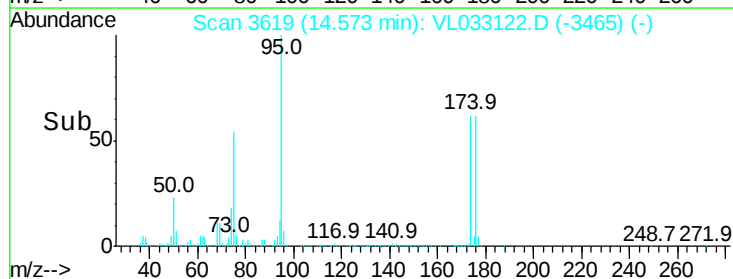
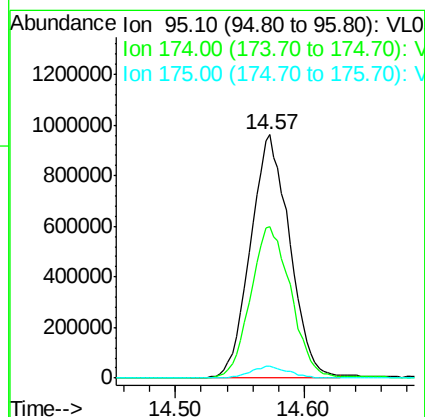
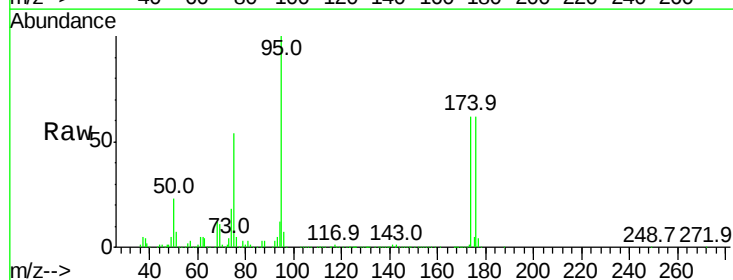
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

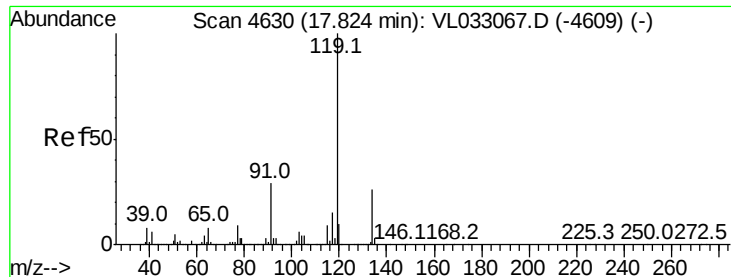
Tgt Ion: 105 Resp: 590191
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.8 22.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.973 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion: 95 Resp: 2033296
 Ion Ratio Lower Upper
 95 100
 174 65.2 51.4 77.2
 175 4.7 4.0 6.0

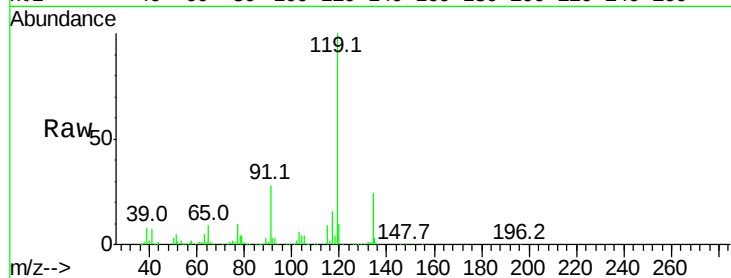




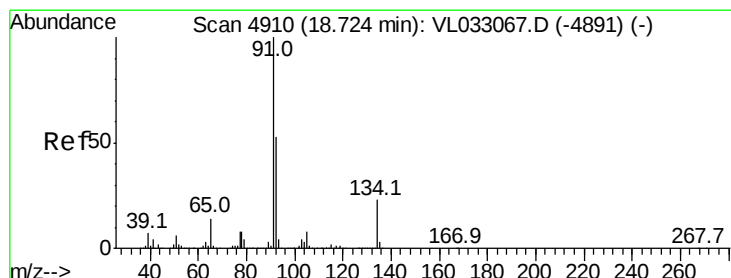
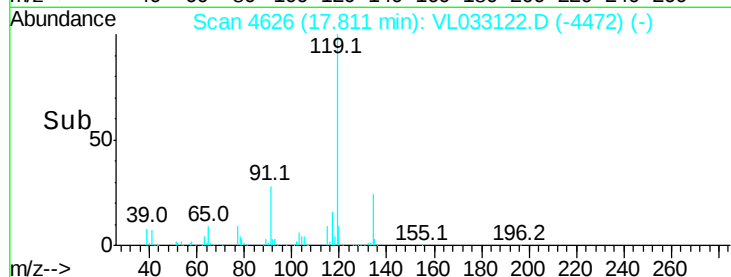
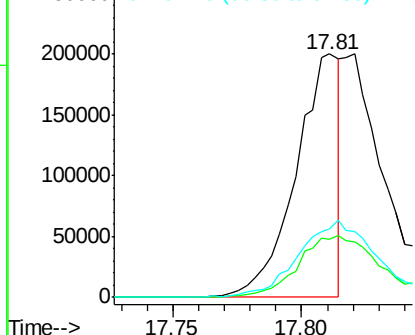
#69
 p-Isopropyltoluene
 Concen: 0.476 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
119	100		
134	47.7	20.4	30.6#
91	57.6	22.8	34.2#

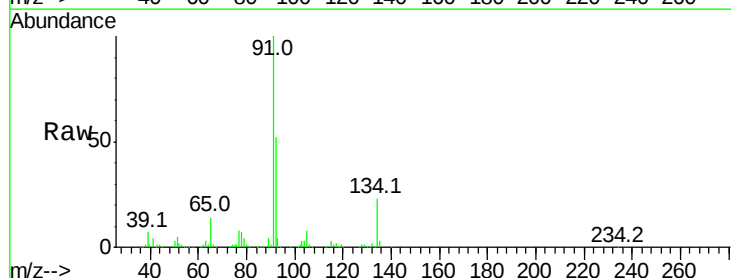


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

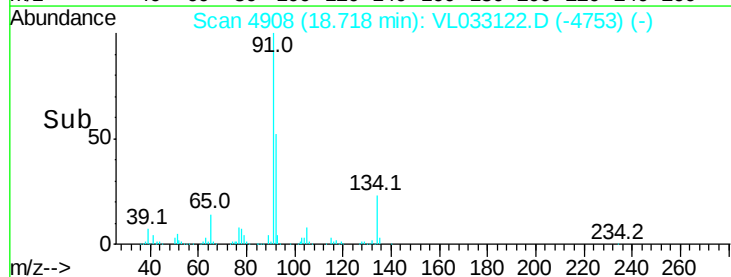
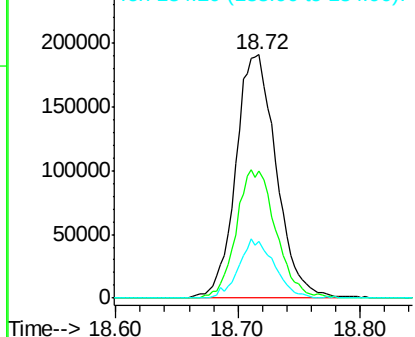


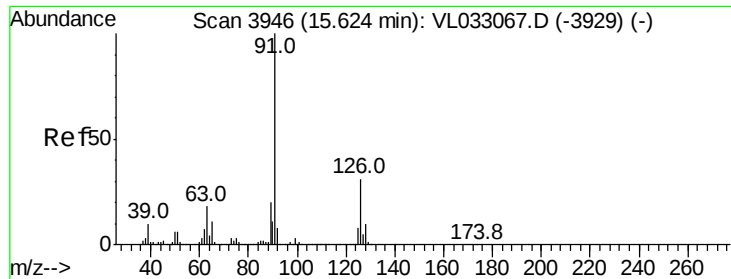
#70
 n-Butylbenzene
 Concen: 0.877 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.0	43.0	64.6
134	21.7	18.4	27.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V

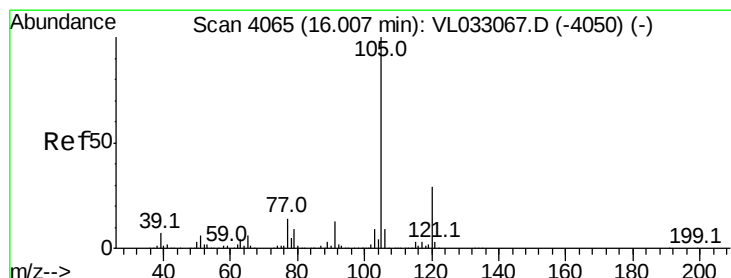
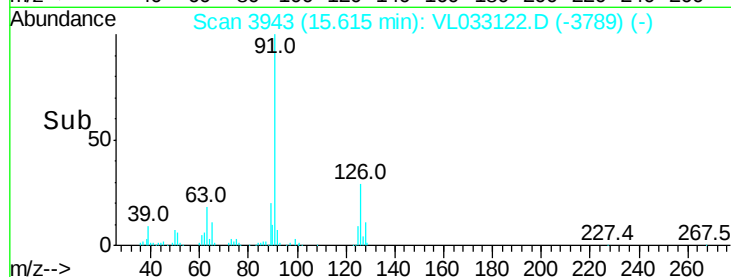
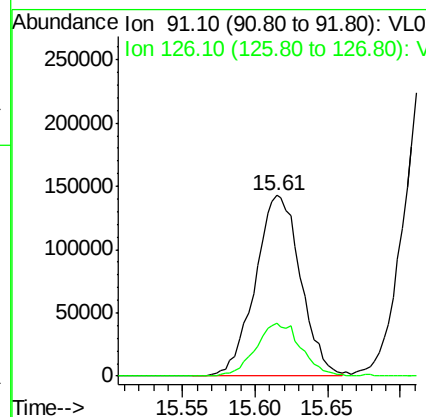
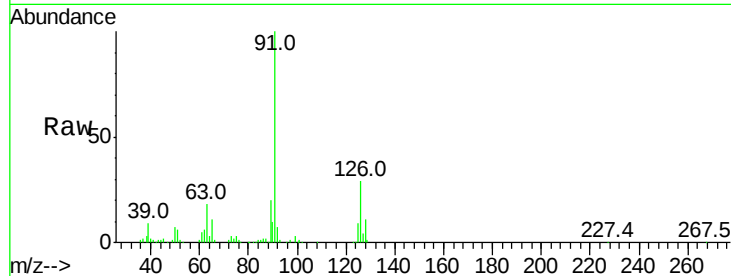




#71
2-Chlorotoluene
Concen: 0.908 ppbv
RT: 15.61 min Scan# 3943
Delta R.T. -0.00 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

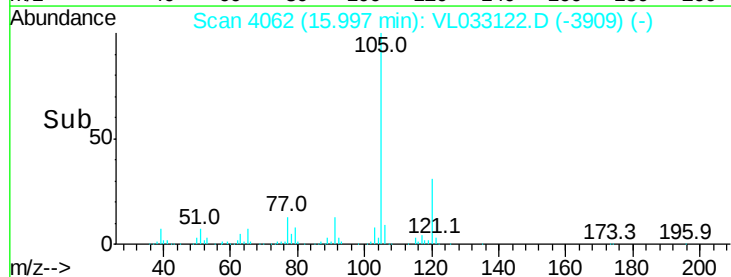
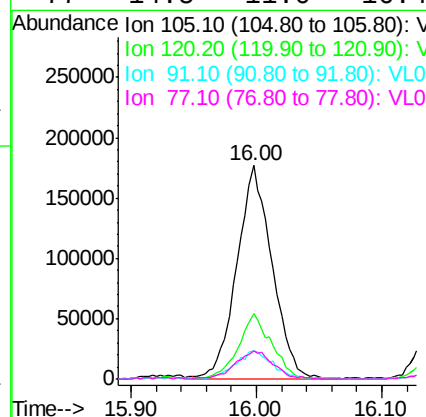
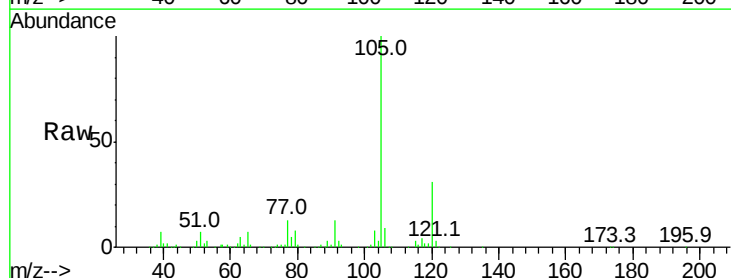
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

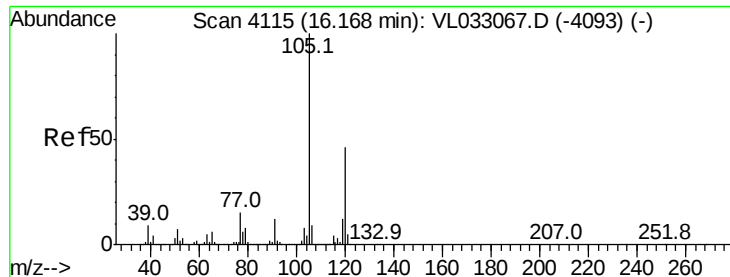
Tgt Ion: 91 Resp: 309842
Ion Ratio Lower Upper
91 100
126 29.7 12.4 49.8



#72
4-Ethyltoluene
Concen: 0.920 ppbv
RT: 16.00 min Scan# 4062
Delta R.T. -0.01 min
Lab File: VL033122.D
Acq: 28 Jan 2019 21:51

Tgt Ion: 105 Resp: 341679
Ion Ratio Lower Upper
105 100
120 29.0 23.5 35.3
91 14.9 10.3 15.5
77 14.5 11.0 16.4

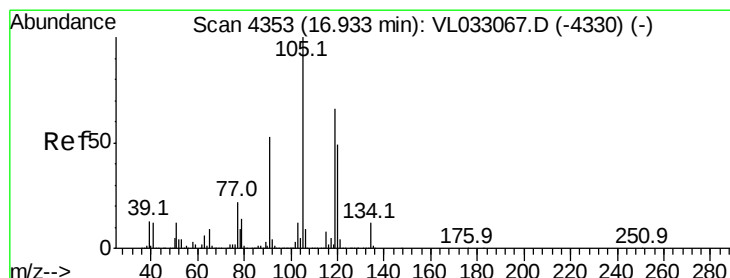
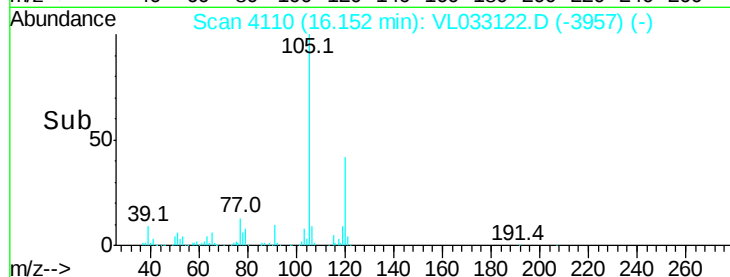
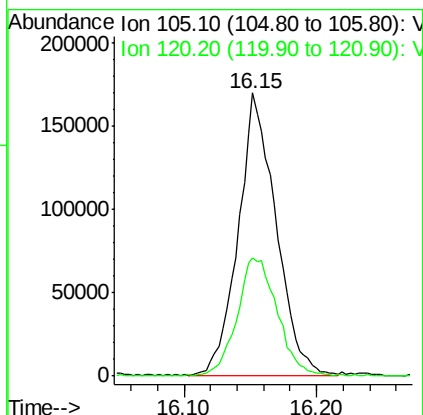
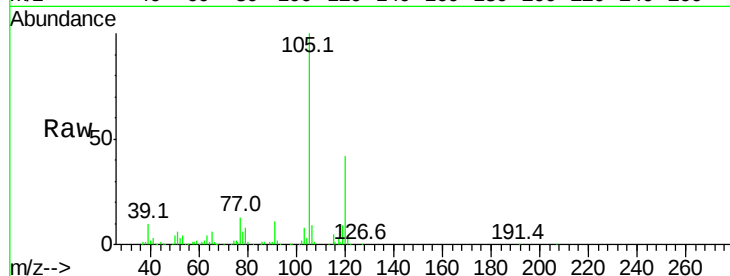




#73
 1,3,5-Trimethylbenzene
 Concen: 0.915 ppbv
 RT: 16.15 min Scan# 4110
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

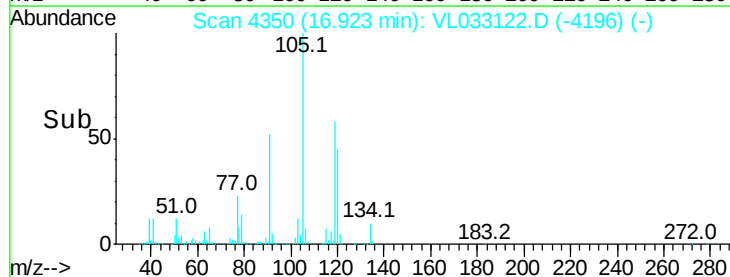
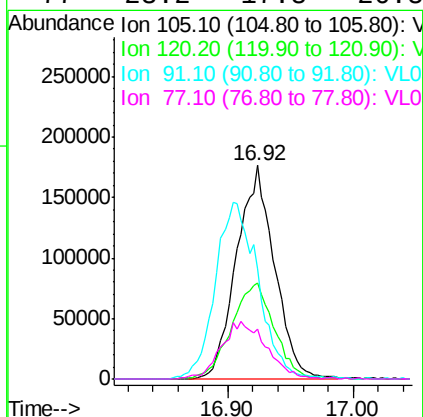
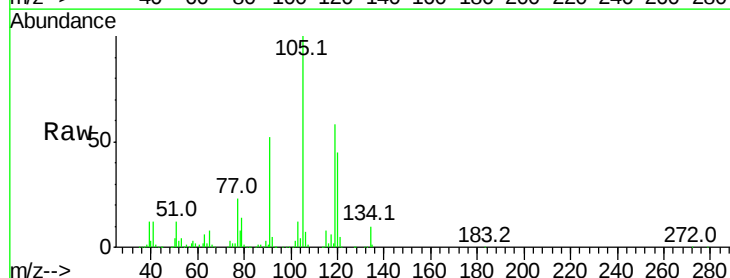
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

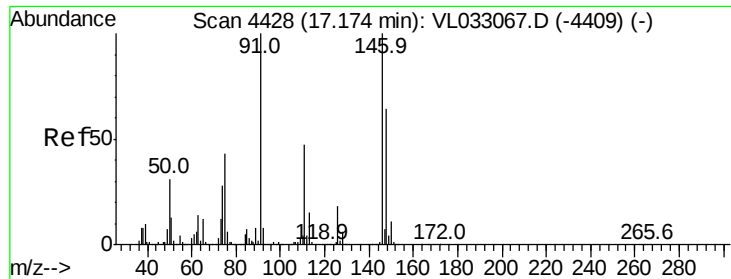
Tgt Ion:105 Resp: 335324
 Ion Ratio Lower Upper
 105 100
 120 41.2 37.5 56.3



#74
 1,2,4-Trimethylbenzene
 Concen: 0.909 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion:105 Resp: 368948
 Ion Ratio Lower Upper
 105 100
 120 44.5 37.9 56.9
 91 51.1 39.8 59.8
 77 23.2 17.8 26.8





#75

1,3-Dichlorobenzene

Concen: 0.421 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

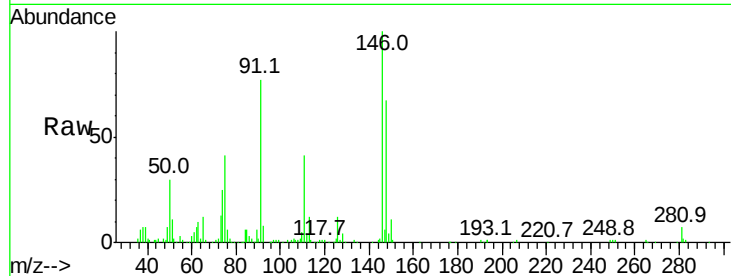
Tgt Ion:146 Resp: 100663

Ion Ratio Lower Upper

146 100

111 102.6 23.4 70.0#

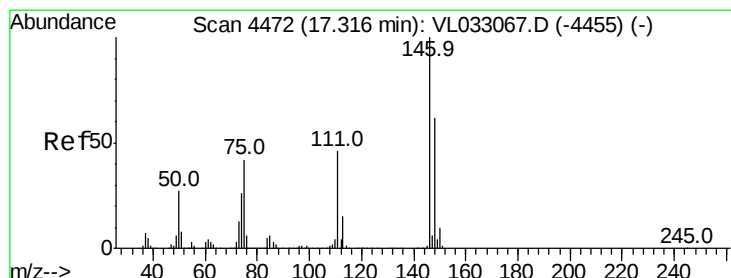
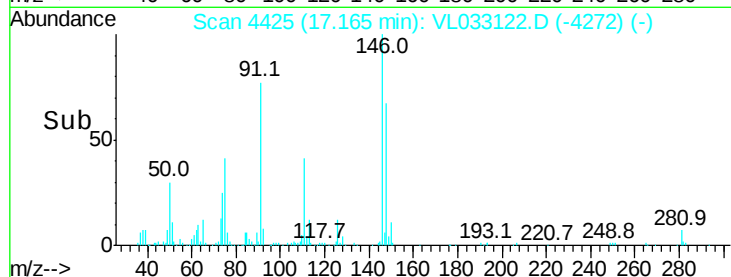
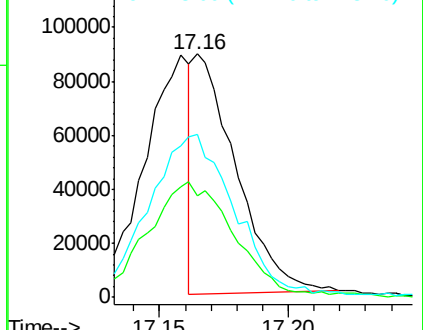
148 143.6 32.1 96.3#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.878 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

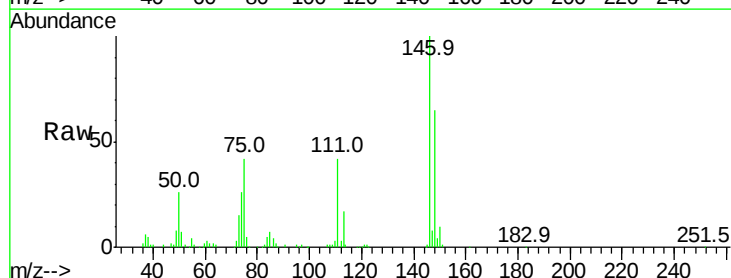
Tgt Ion:146 Resp: 191093

Ion Ratio Lower Upper

146 100

111 47.0 22.7 68.0

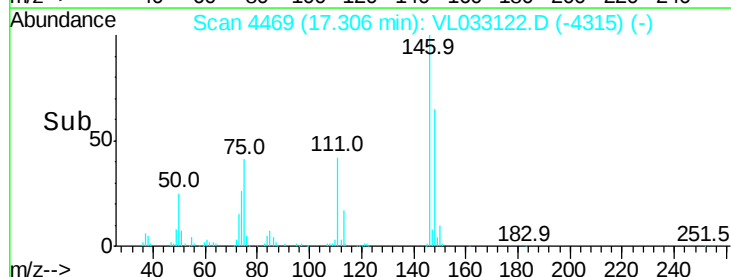
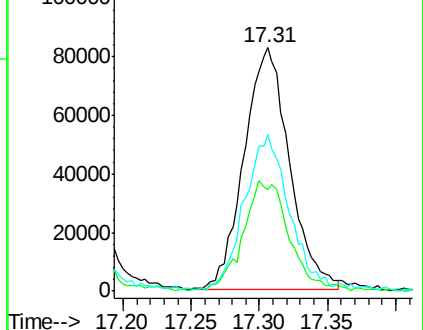
148 65.3 32.1 96.3

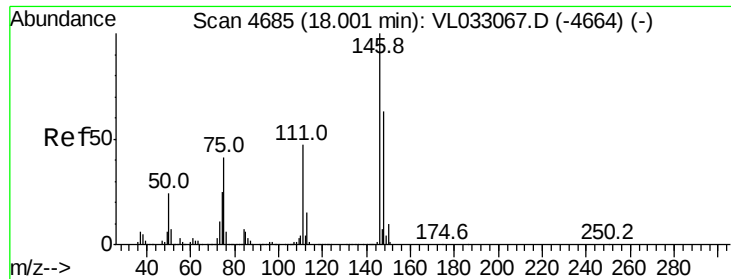


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

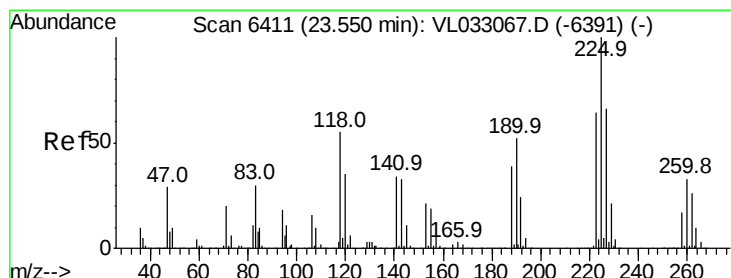
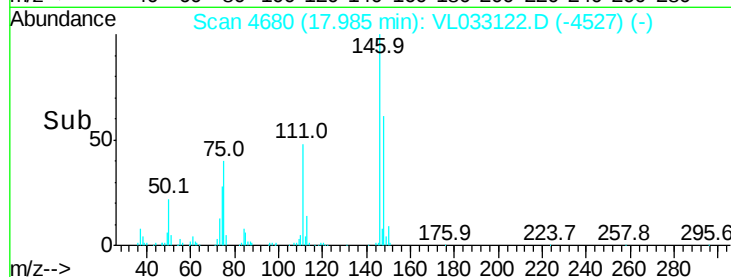
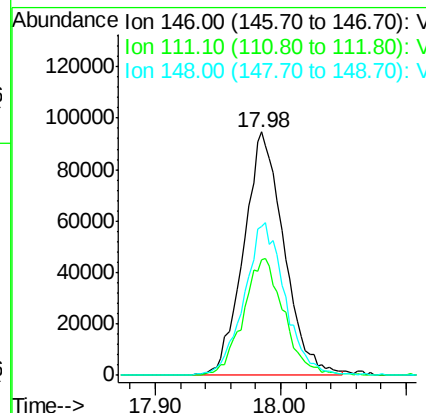
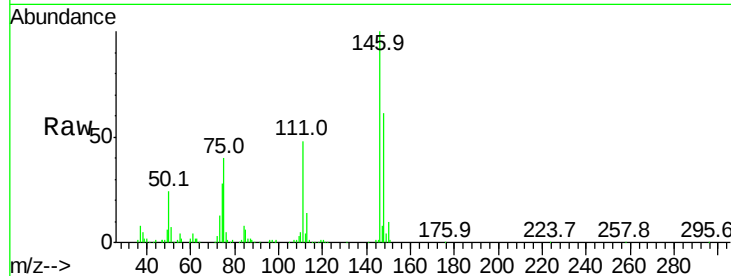




#77
 1,2-Dichlorobenzene
 Concen: 0.982 ppbv
 RT: 17.98 min Scan# 4680
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

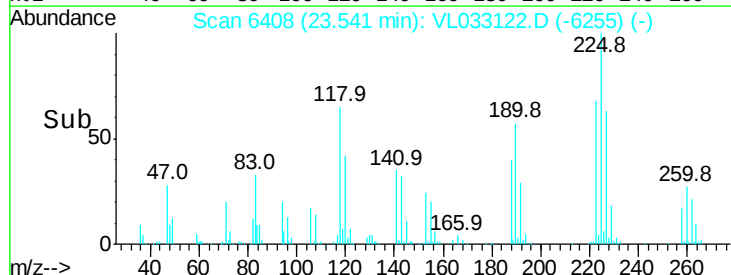
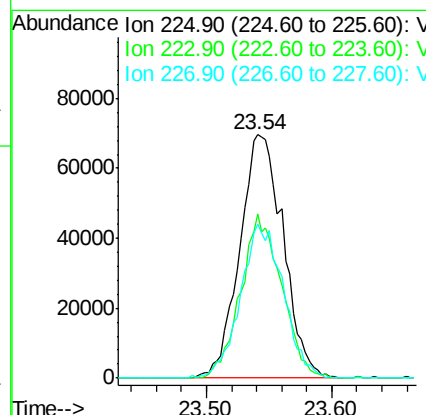
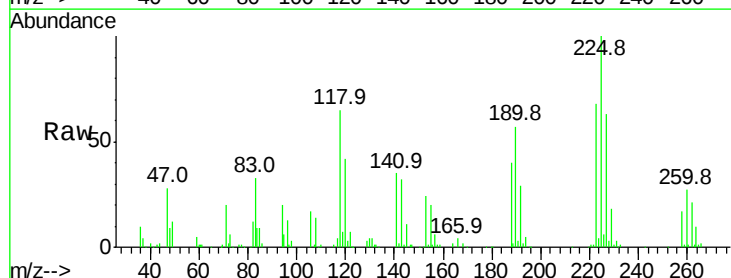
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

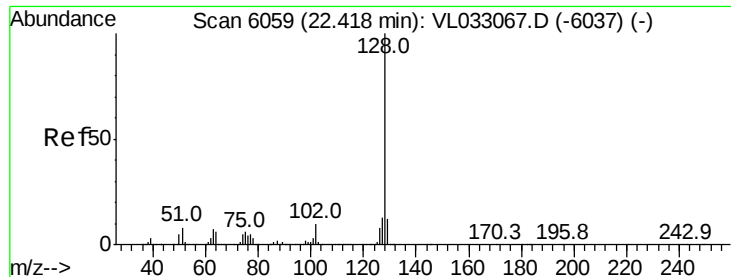
Tgt Ion:146 Resp: 211377
 Ion Ratio Lower Upper
 146 100
 111 48.7 24.4 73.2
 148 63.6 32.6 97.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.015 ppbv
 RT: 23.54 min Scan# 6408
 Delta R.T. -0.01 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Tgt Ion:225 Resp: 167743
 Ion Ratio Lower Upper
 225 100
 223 63.1 50.5 75.7
 227 62.1 51.0 76.4





#79

Naphthalene

Concen: 0.481 ppbv

RT: 22.42 min Scan# 6060

Delta R.T. 0.01 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

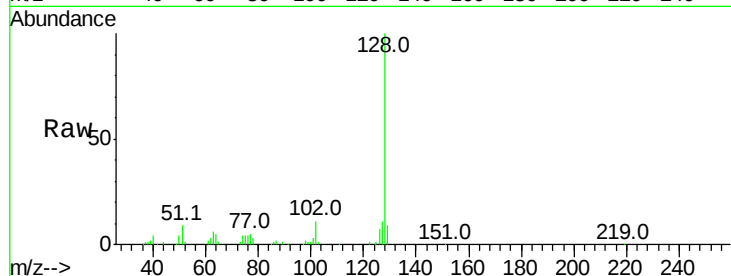
Tgt Ion:128 Resp: 164375

Ion Ratio Lower Upper

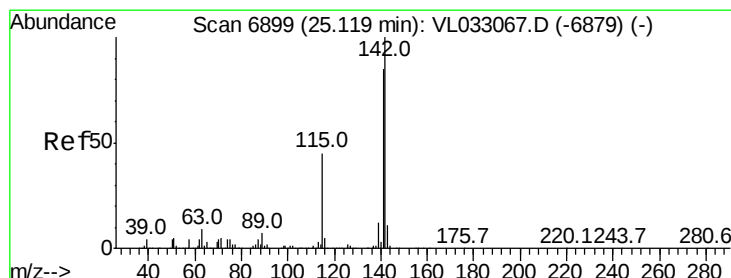
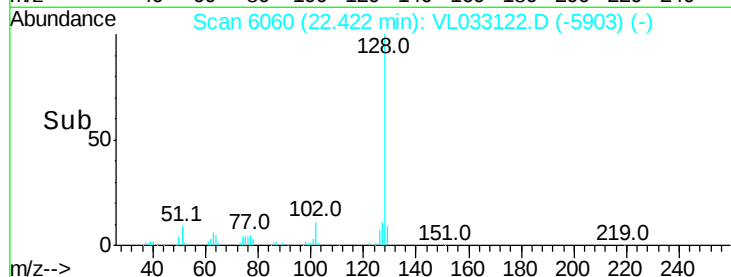
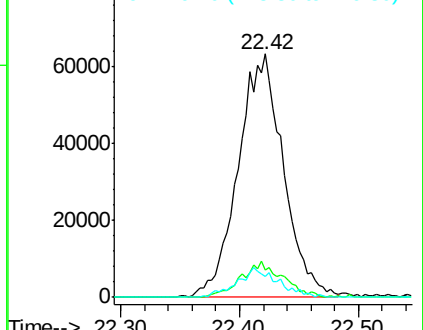
128 100

127 11.3 10.6 15.8

129 8.7 9.2 13.8#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.177 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.00 min

Lab File: VL033122.D

Acq: 28 Jan 2019 21:51

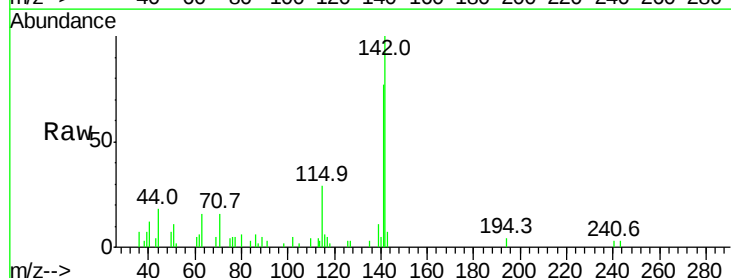
Tgt Ion:142 Resp: 18405

Ion Ratio Lower Upper

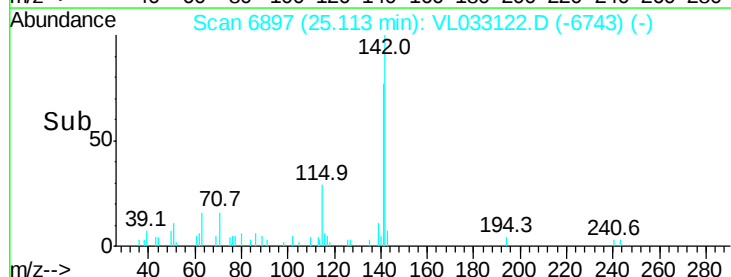
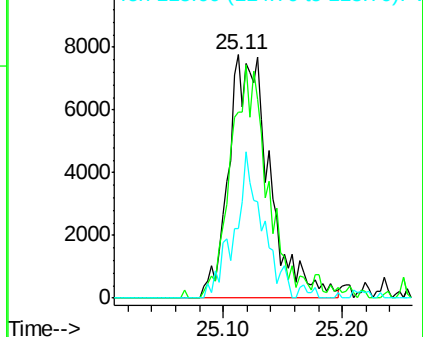
142 100

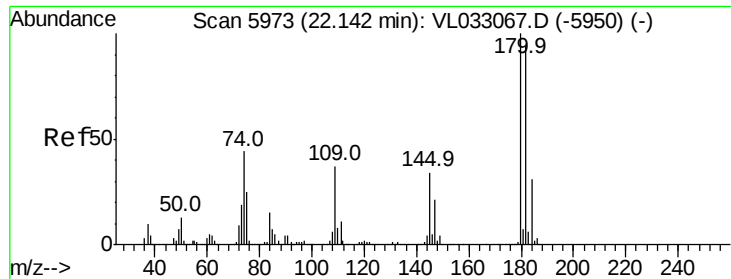
141 90.7 67.4 101.2

115 43.0 34.9 52.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.532 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033122.D
 Acq: 28 Jan 2019 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:180 Resp: 87855
 Ion Ratio Lower Upper
 180 100
 182 100.5 76.5 114.7
 184 32.3 24.2 36.4

