

Data File : VL033993.D
Acq On : 2 Jul 2019 16:12
Operator : SY/AP
Sample : VSTICC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTICC0.1

Quant Time: Jul 02 16:45:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 16:27:55 2019
QLast Update : Tue Jul 02 16:27:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1014468	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2750790	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2546318	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	2067826	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

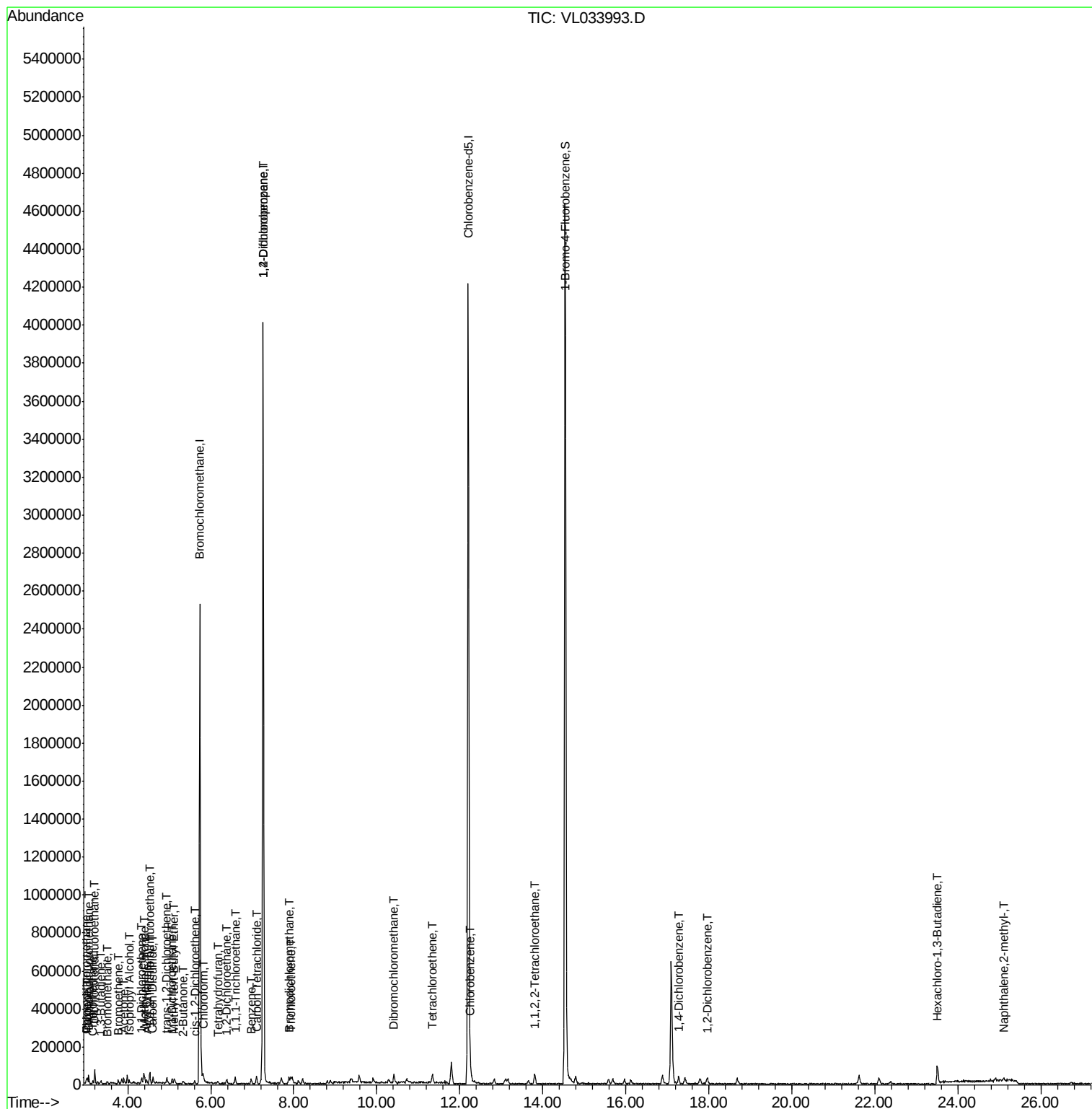
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.07	85	29435	0.179	ppbv	98
3) Chlorodifluoromethane	3.00	51	17588	0.147	ppbv	95
4) Chloromethane	3.16	50	9022	0.132	ppbv #	48
6) Bromomethane	3.50	94	4035	0.096	ppbv	95
8) Dichlorotetrafluoroethane	3.21	85	25510	0.145	ppbv	92
9) Propene	3.02	41	2255	0.050	ppbv #	1
12) 1,1,2-Trichlorotrifluoroet	4.53	101	18409	0.128	ppbv	91
14) Bromoethene	3.77	108	1782	0.033	ppbv #	1
15) Acetone	3.91	43	24244	0.164	ppbv #	85
16) 1,3-Butadiene	3.35	39	3273	0.058	ppbv #	5
18) 1,1-Dichloroethene	4.32	96	2611	0.043	ppbv #	69
19) Isopropyl Alcohol	4.04	45	12000	0.142	ppbv #	84
20) Methylene Chloride	4.38	84	4890	0.085	ppbv #	70
21) Allyl Chloride	4.45	41	7324	0.087	ppbv #	56
22) trans-1,2-Dichloroethene	4.93	96	3020	0.047	ppbv #	77
24) 1,1-Dichloroethane	5.07	63	11917	0.089	ppbv #	94
27) Carbon Disulfide	4.60	76	8661	0.061	ppbv #	59
28) Methyl tert-Butyl Ether	5.11	73	5568	0.036	ppbv #	55
29) Chloroform	5.81	83	12016	0.068	ppbv #	65
31) cis-1,2-Dichloroethene	5.62	61	5811	0.065	ppbv #	65
32) 1,1,1-Trichloroethane	6.58	97	12544	0.074	ppbv #	48
34) 2-Butanone	5.33	43	13662	0.088	ppbv #	86
35) Carbon Tetrachloride	7.10	117	7207	0.034	ppbv #	67
36) Benzene	6.97	78	16456	0.078	ppbv #	87
37) 1,2-Dichloroethane	6.38	62	9666	0.062	ppbv #	88
38) Trichloroethene	7.93	130	4363	0.053	ppbv #	32
39) 1,2-Dichloropropane	7.26	63	690439	8.514	ppbv #	25
41) Tetrahydrofuran	6.16	42	2654	0.034	ppbv #	24
42) Bromodichloromethane	7.88	83	12389	0.060	ppbv #	77
48) Dibromochloromethane	10.41	129	10141	0.058	ppbv #	25
52) Trachloroethene	11.34	164	7927	0.107	ppbv #	81
57) Chlorobenzene	12.27	112	7969	0.042	ppbv #	66
63) 1,1,2,2-Tetrachloroethane	13.81	83	9924	0.049	ppbv #	25
76) 1,4-Dichlorobenzene	17.27	146	7776	0.039	ppbv #	20
77) 1,2-Dichlorobenzene	17.95	146	6454	0.032	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.51	225	12339	0.078	ppbv #	25
80) Naphthalene,2-methyl-	25.10	142	6894	0.062	ppbv	94

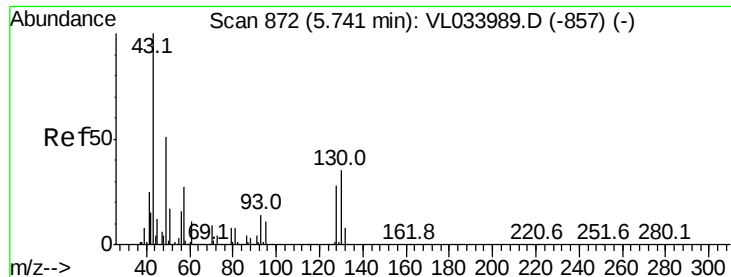
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

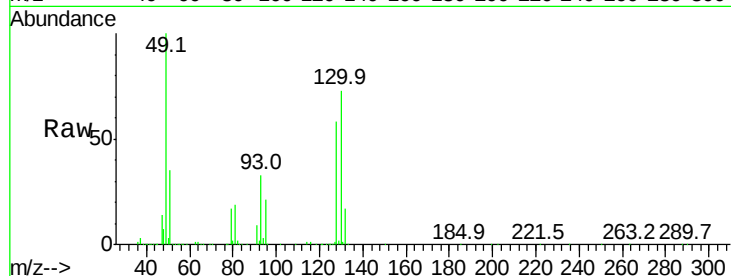
Tgt Ion: 49 Resp: 1014468

Ion Ratio Lower Upper

49 100

128 58.5 27.9 83.6

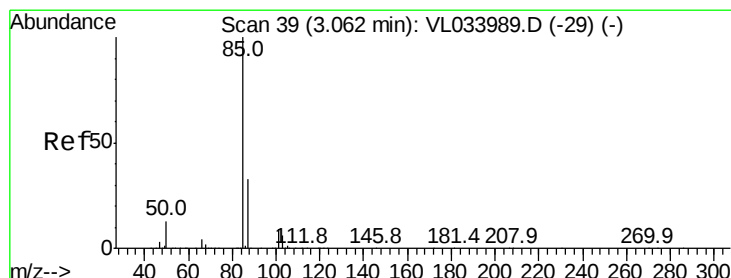
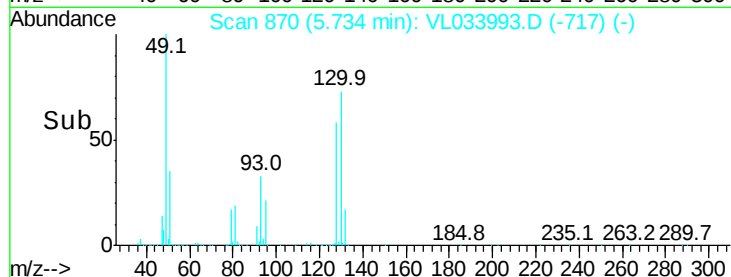
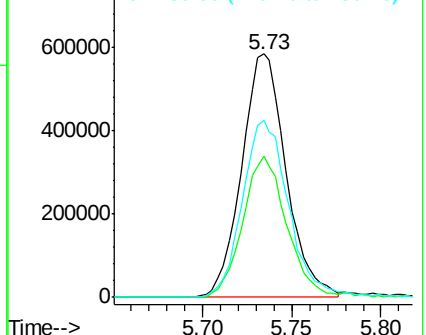
130 76.0 35.8 107.4



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: 0.179 ppbv

RT: 3.07 min Scan# 40

Delta R.T. 0.00 min

Lab File: VL033993.D

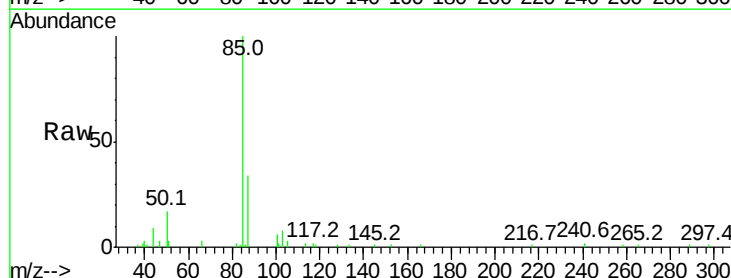
Acq: 2 Jul 2019 16:12

Tgt Ion: 85 Resp: 29435

Ion Ratio Lower Upper

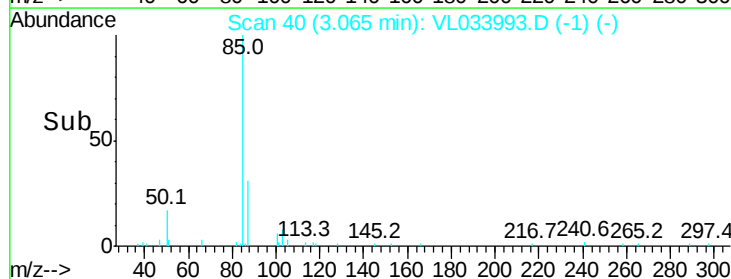
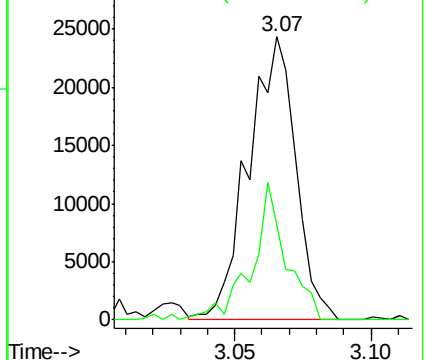
85 100

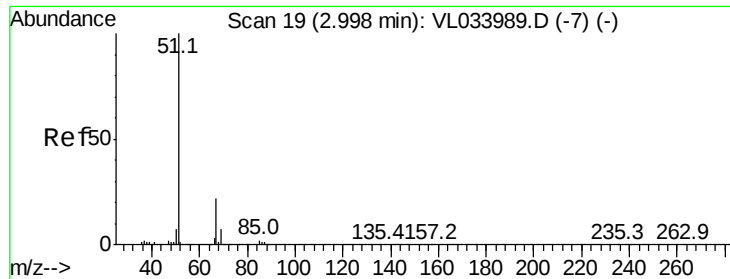
87 33.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.147 ppbv

RT: 3.00 min Scan# 20

Delta R.T. 0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

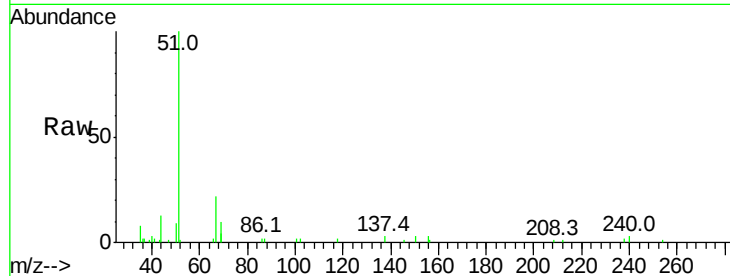
VSTDIC0.1

Tgt Ion: 51 Resp: 17588

Ion Ratio Lower Upper

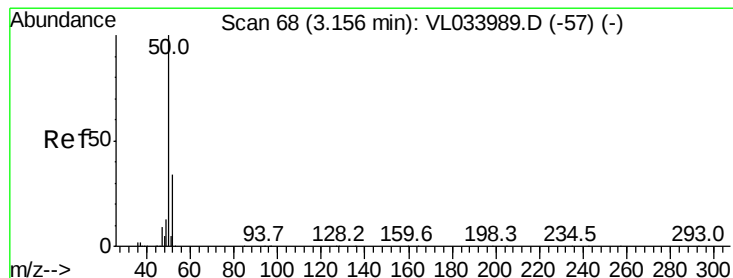
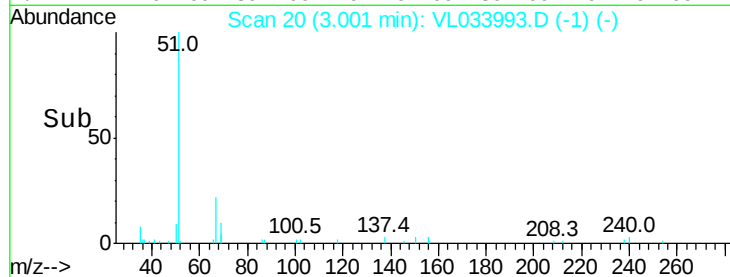
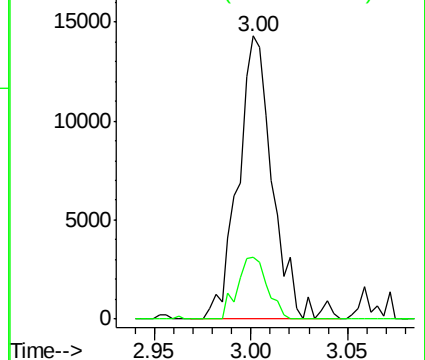
51 100

67 19.0 17.3 25.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.132 ppbv

RT: 3.16 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL033993.D

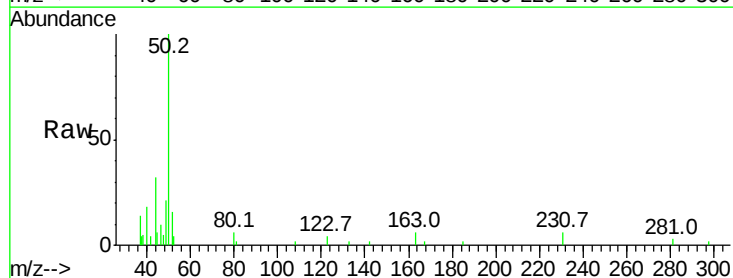
Acq: 2 Jul 2019 16:12

Tgt Ion: 50 Resp: 9022

Ion Ratio Lower Upper

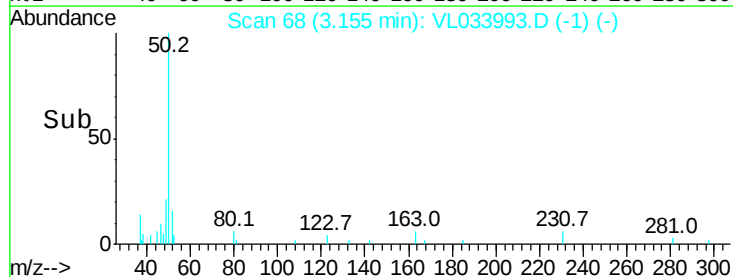
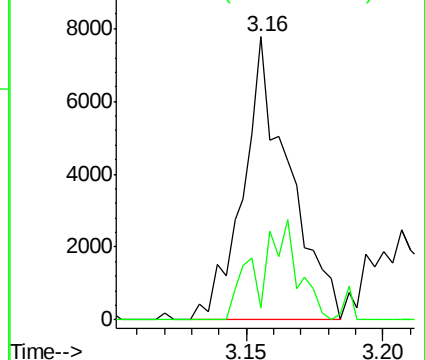
50 100

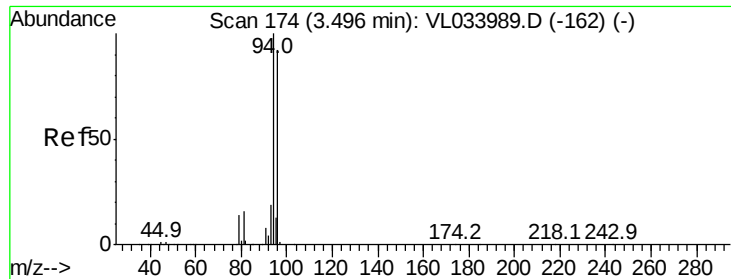
52 4.4 27.4 41.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#6

Bromomethane

Concen: 0.096 ppbv

RT: 3.50 min Scan# 175

Delta R.T. 0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

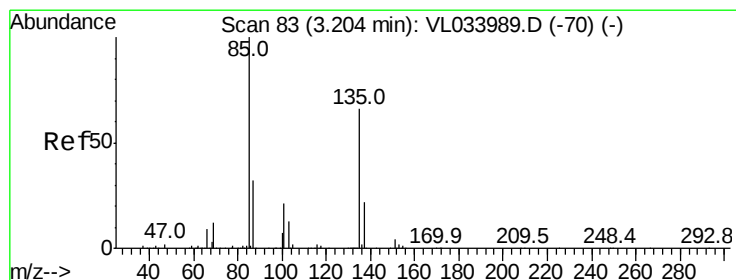
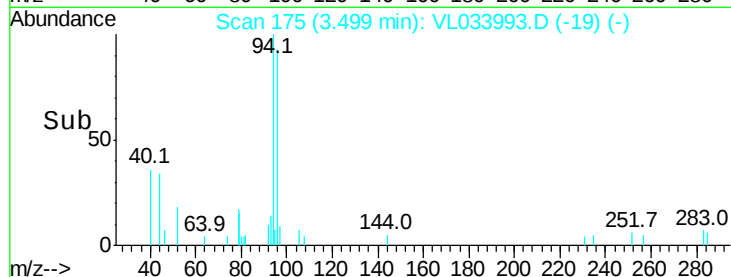
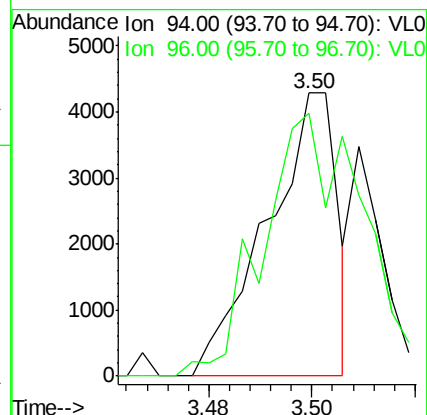
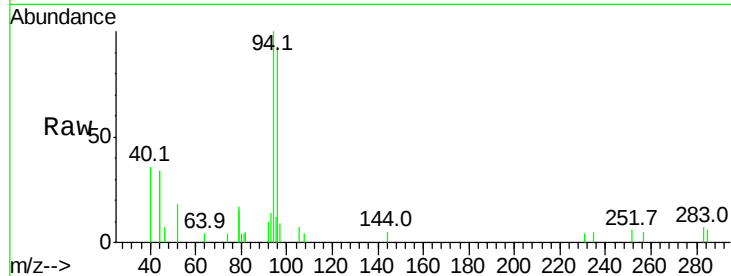
VSTDIC0.1

Tgt Ion: 94 Resp: 4035

Ion Ratio Lower Upper

94 100

96 87.7 73.8 110.8



#8

Dichlorotetrafluoroethane

Concen: 0.145 ppbv

RT: 3.21 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL033993.D

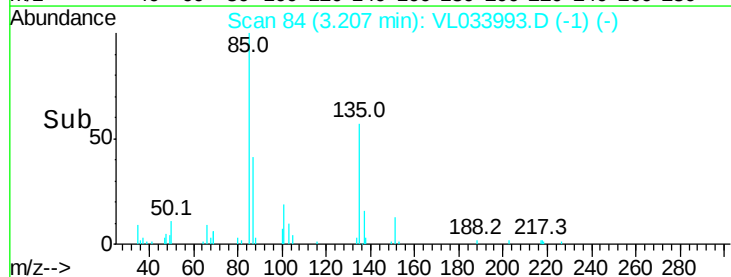
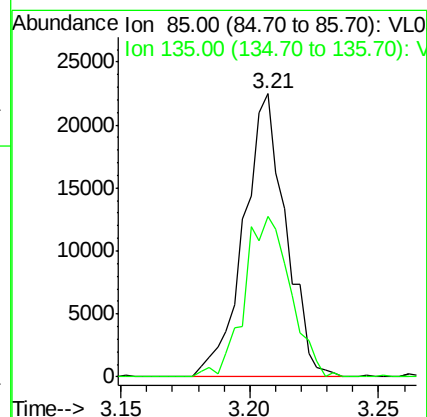
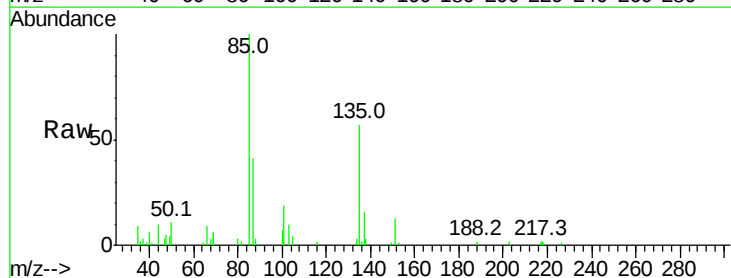
Acq: 2 Jul 2019 16:12

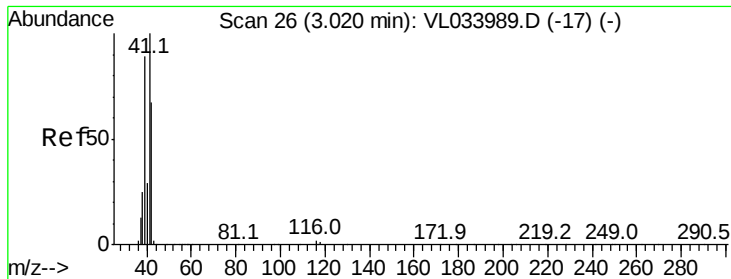
Tgt Ion: 85 Resp: 25510

Ion Ratio Lower Upper

85 100

135 61.9 55.0 82.4





#9

Propene

Concen: 0.050 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

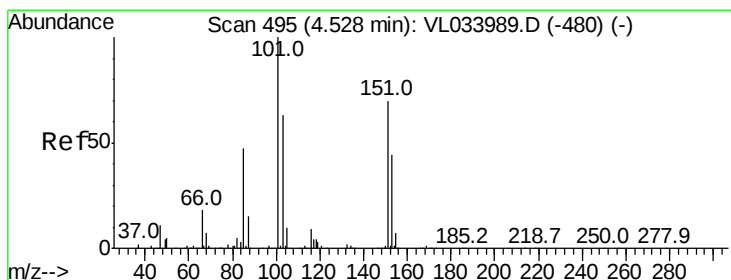
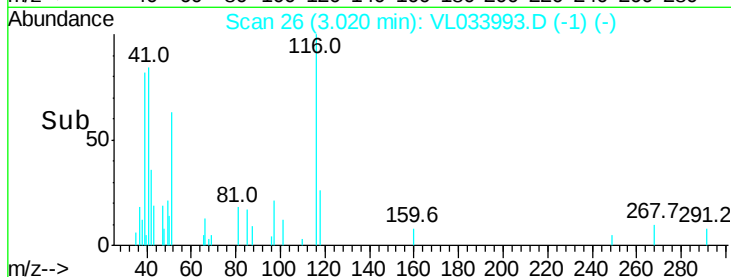
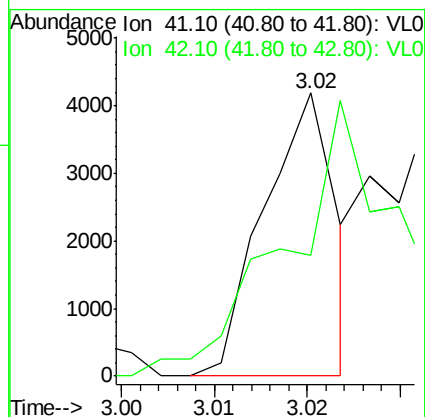
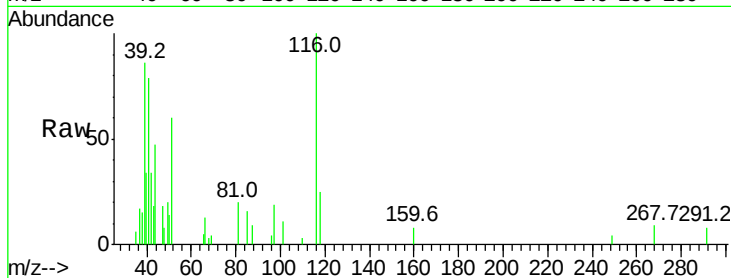
VSTDIC0.1

Tgt Ion: 41 Resp: 2255

Ion Ratio Lower Upper

41 100

42 179.0 57.1 85.7#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.128 ppbv

RT: 4.53 min Scan# 496

Delta R.T. 0.00 min

Lab File: VL033993.D

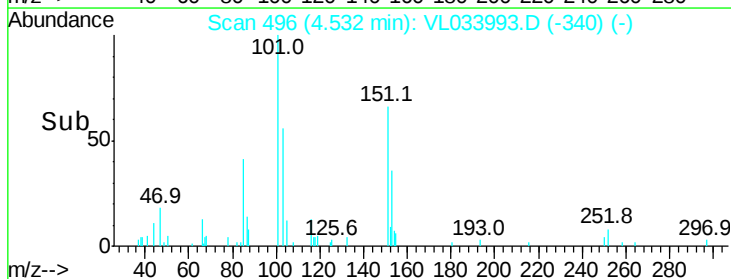
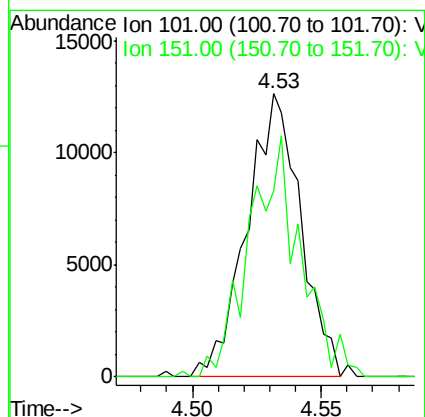
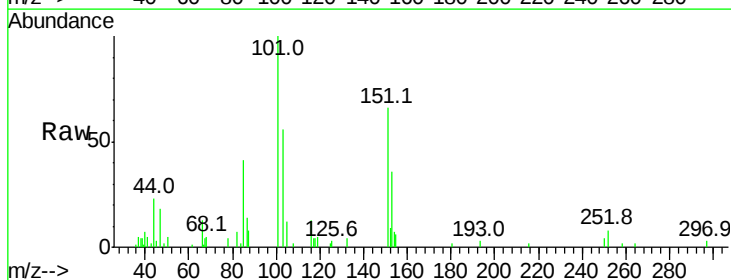
Acq: 2 Jul 2019 16:12

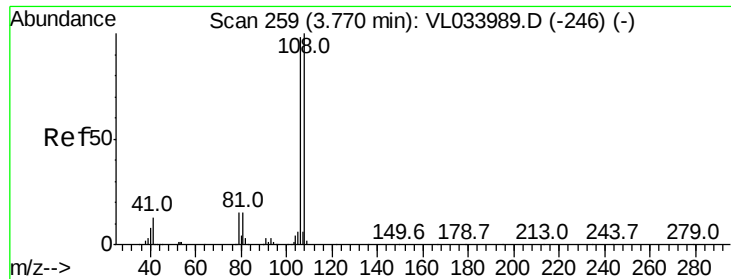
Tgt Ion: 101 Resp: 18409

Ion Ratio Lower Upper

101 100

151 81.5 59.0 88.4





#14

Bromoethene

Concen: 0.033 ppbv

RT: 3.77 min Scan# 259

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

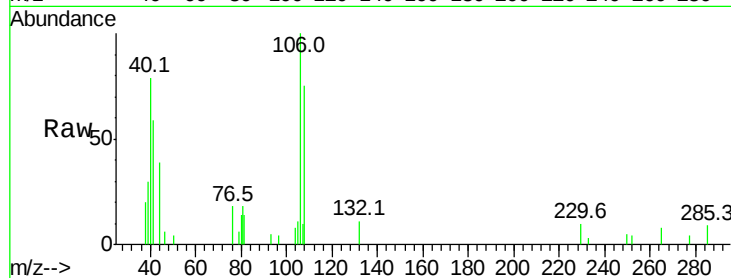
Tgt Ion:108 Resp: 1782

Ion Ratio Lower Upper

108 100

106 420.7 85.6 128.4#

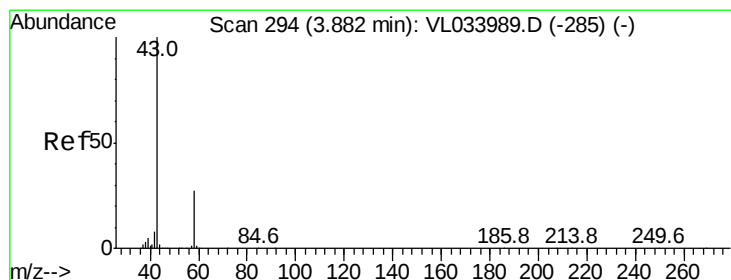
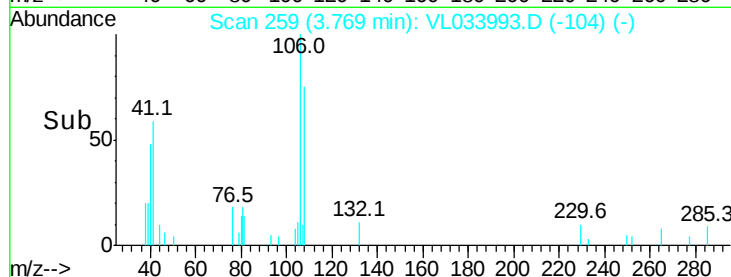
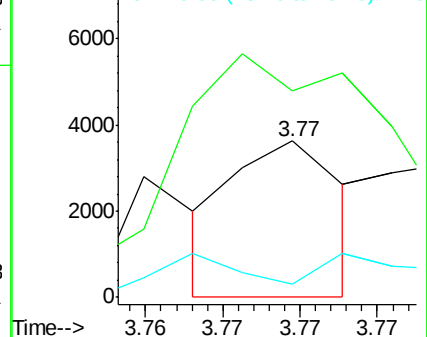
79 85.2 14.0 21.0#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#15

Acetone

Concen: 0.164 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.03 min

Lab File: VL033993.D

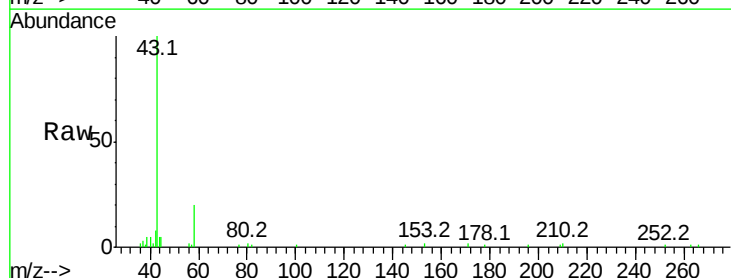
Acq: 2 Jul 2019 16:12

Tgt Ion: 43 Resp: 24244

Ion Ratio Lower Upper

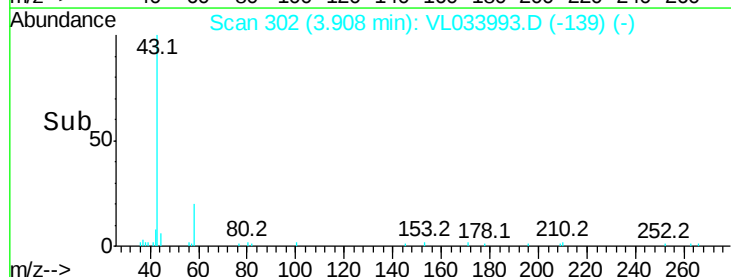
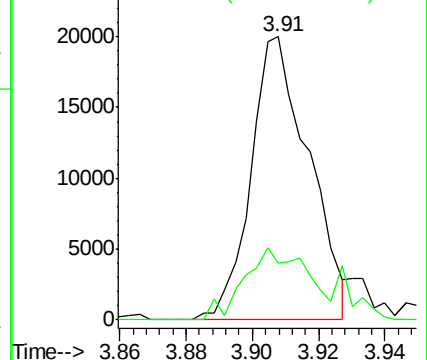
43 100

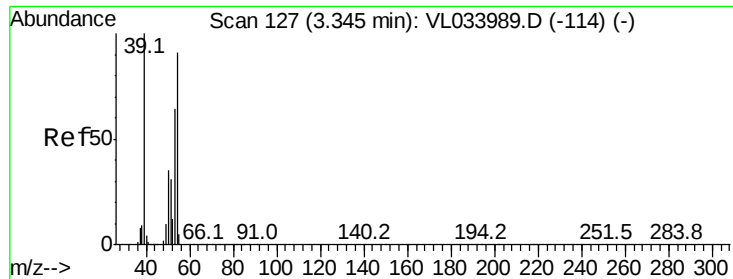
58 34.6 21.4 32.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

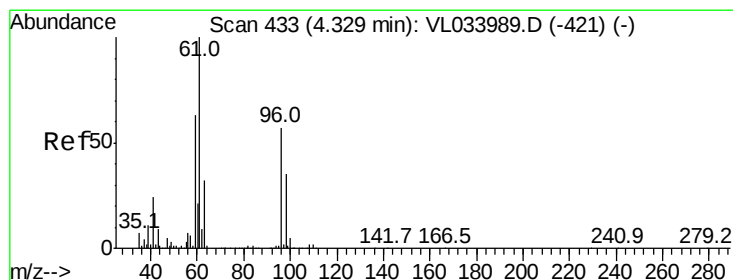
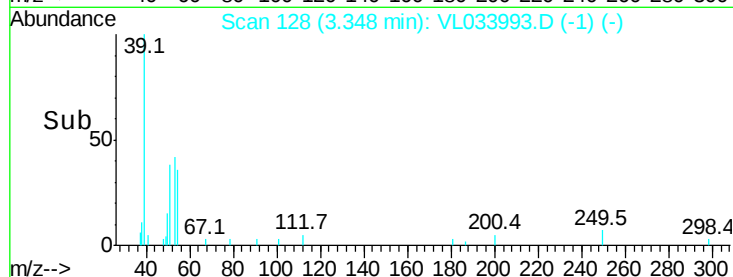
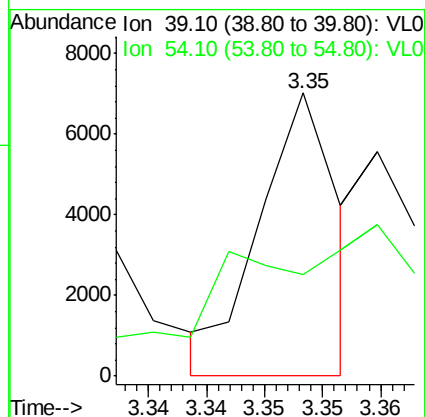
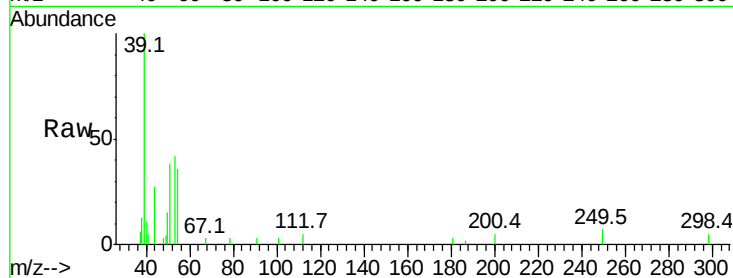




#16
 1,3-Butadiene
 Concen: 0.058 ppbv
 RT: 3.35 min Scan# 128
 Delta R.T. 0.00 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

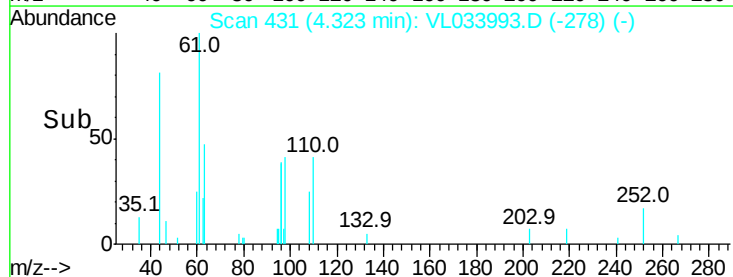
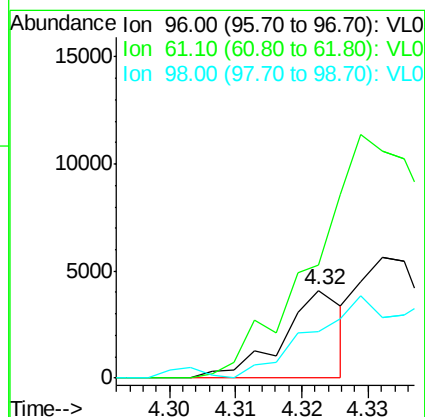
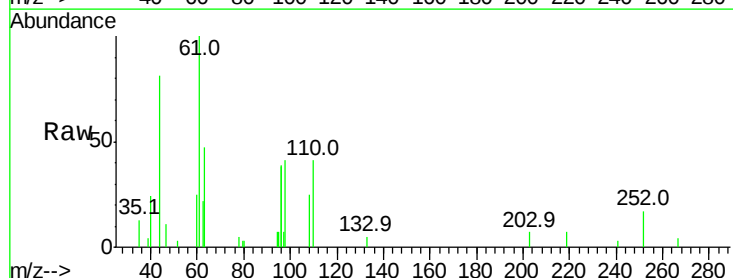
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

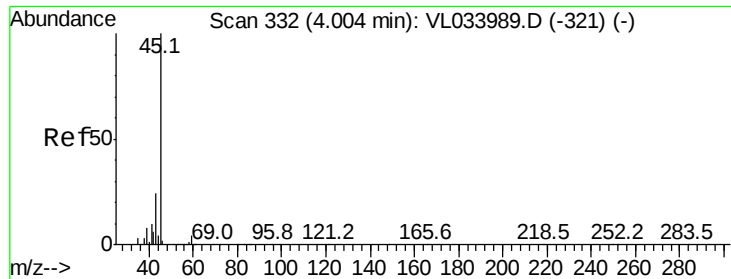
Tgt Ion: 39 Resp: 3273
 Ion Ratio Lower Upper
 39 100
 54 0.0 71.4 107.2#



#18
 1,1-Dichloroethene
 Concen: 0.043 ppbv
 RT: 4.32 min Scan# 431
 Delta R.T. -0.01 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

Tgt Ion: 96 Resp: 2611
 Ion Ratio Lower Upper
 96 100
 61 129.1 139.4 209.0#
 98 40.9 49.4 74.0#





#19

Isopropyl Alcohol

Concen: 0.142 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.04 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

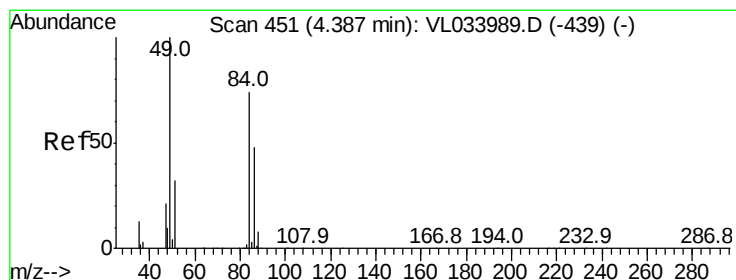
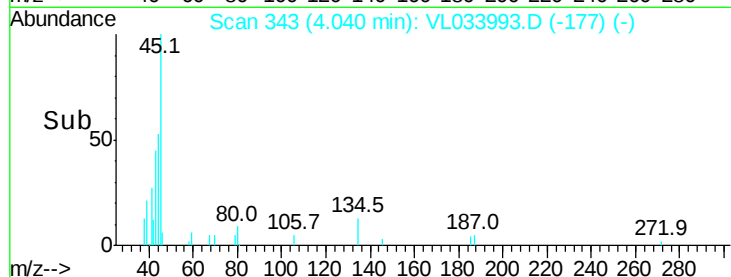
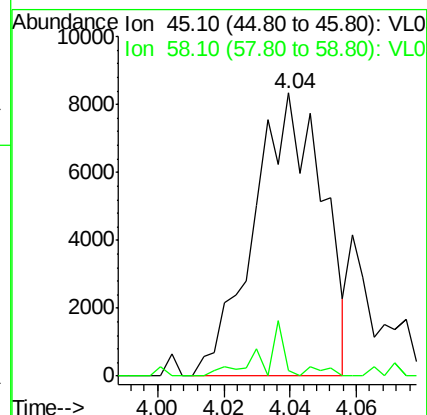
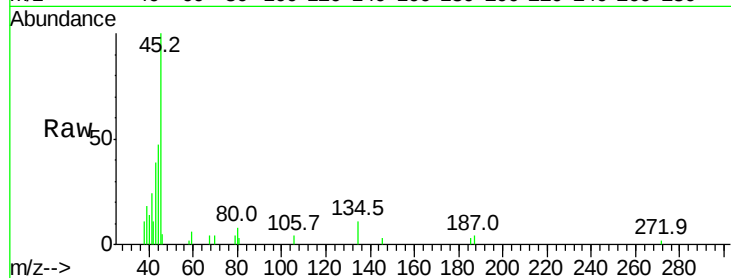
VSTDIC0.1

Tgt Ion: 45 Resp: 12000

Ion Ratio Lower Upper

45 100

58 7.6 1.7 2.5#



#20

Methylene Chloride

Concen: 0.085 ppbv

RT: 4.38 min Scan# 450

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Tgt Ion: 84 Resp: 4890

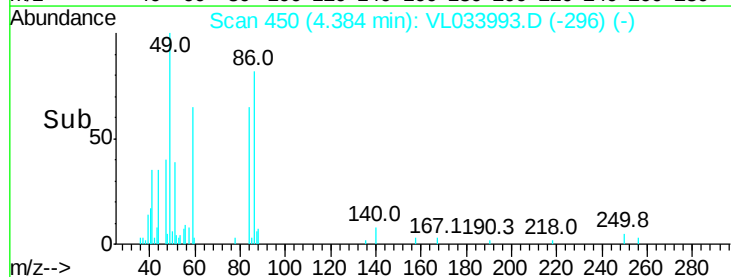
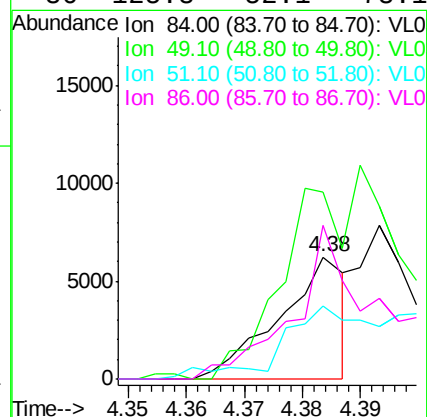
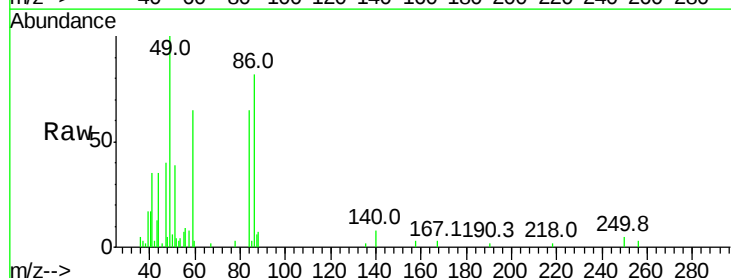
Ion Ratio Lower Upper

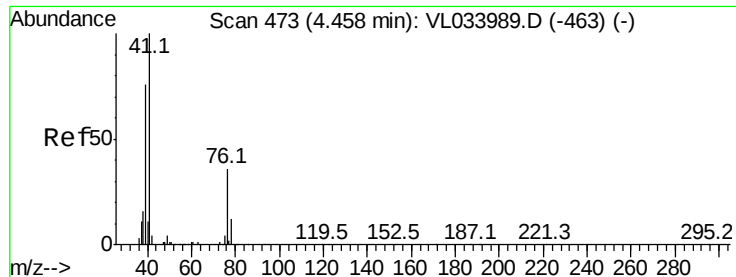
84 100

49 149.5 107.6 161.4

51 51.2 35.0 52.6

86 125.8 52.1 78.1#





#21

Allyl Chloride

Concen: 0.087 ppbv

RT: 4.45 min Scan# 472

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

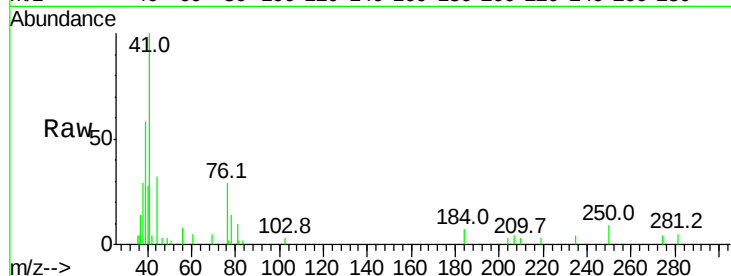
Tgt Ion: 41 Resp: 7324

Ion Ratio Lower Upper

41 100

76 53.0 26.8 40.2#

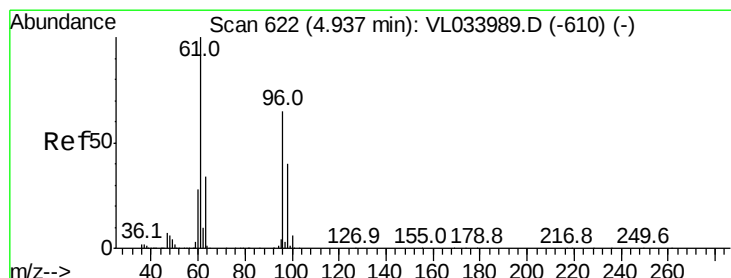
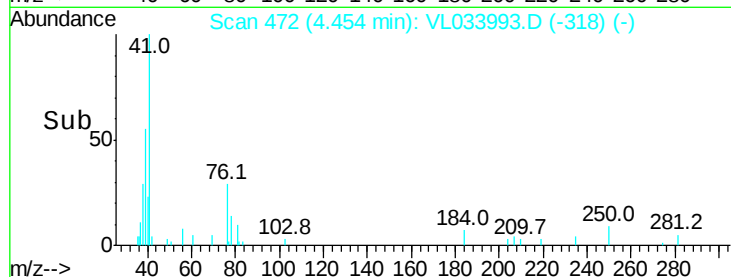
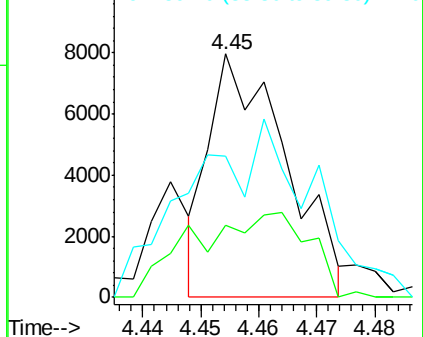
39 121.1 63.1 94.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.047 ppbv

RT: 4.93 min Scan# 619

Delta R.T. -0.01 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

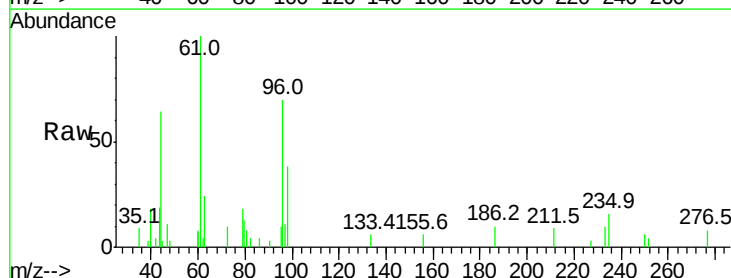
Tgt Ion: 96 Resp: 3020

Ion Ratio Lower Upper

96 100

61 123.2 122.9 184.3

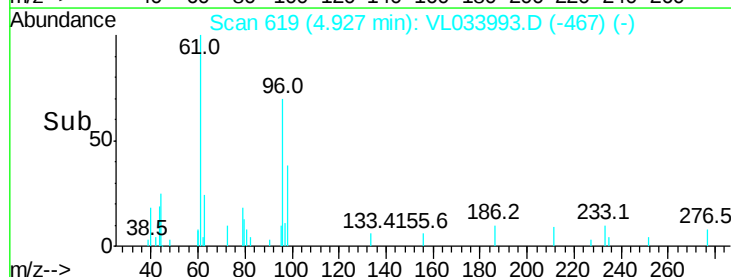
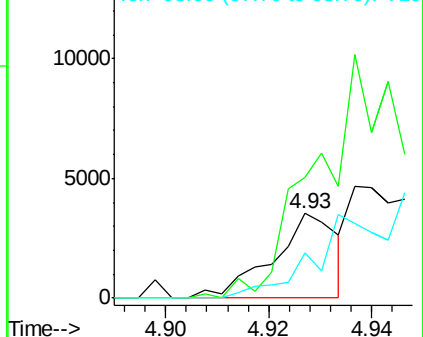
98 46.6 49.6 74.4#

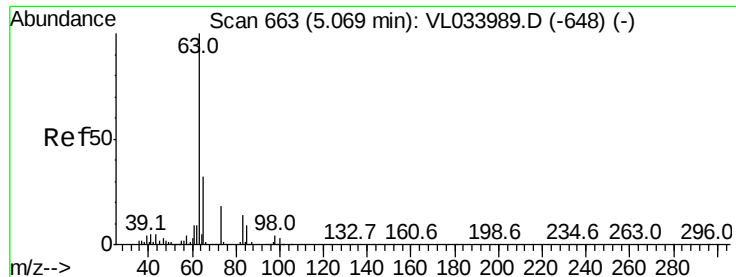


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#24

1,1-Dichloroethane

Concen: 0.089 ppbv

RT: 5.07 min Scan# 663

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

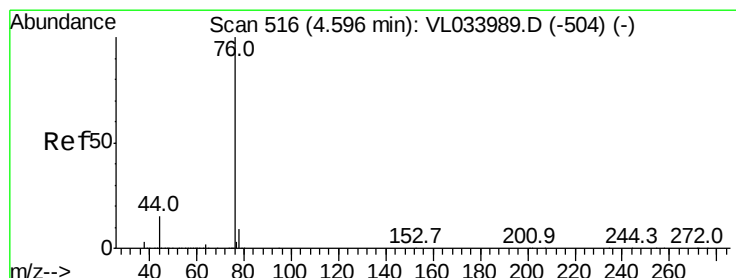
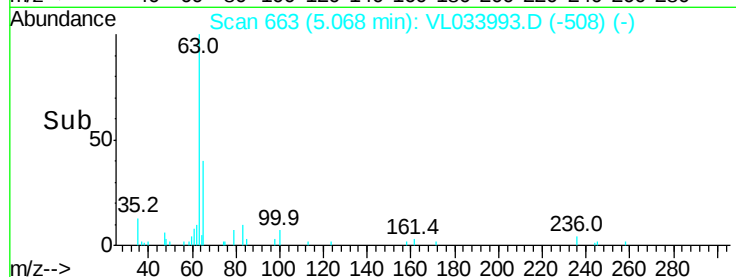
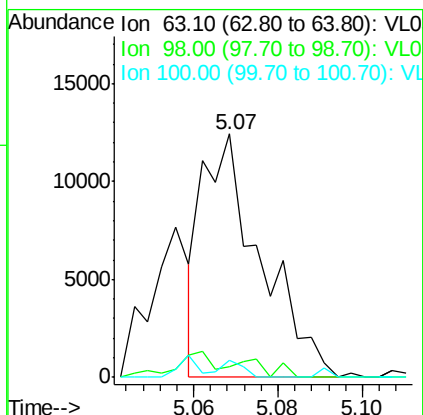
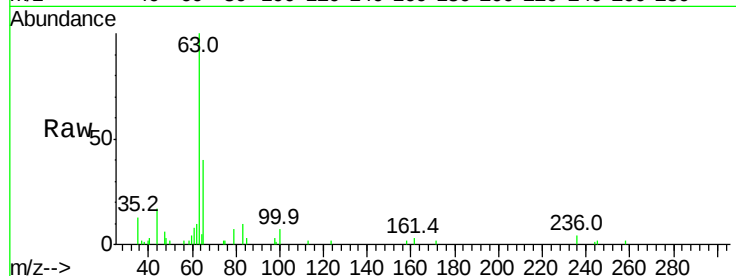
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	63	Resp:	11917
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.2	6.6
100	7.3	1.4	4.2#



#27

Carbon Disulfide

Concen: 0.061 ppbv

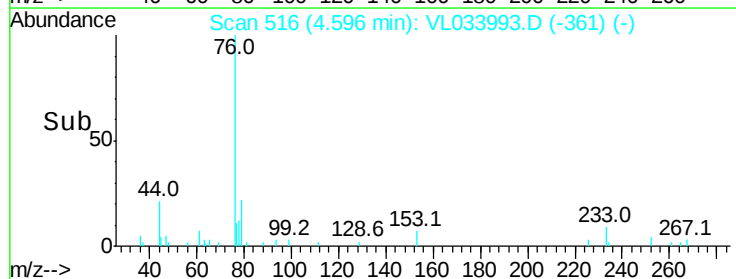
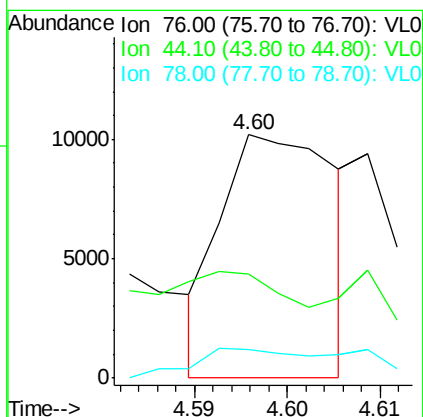
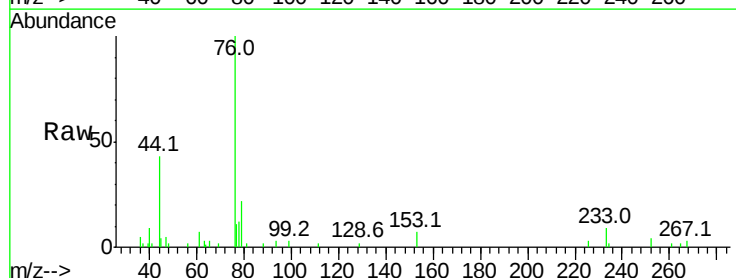
RT: 4.60 min Scan# 516

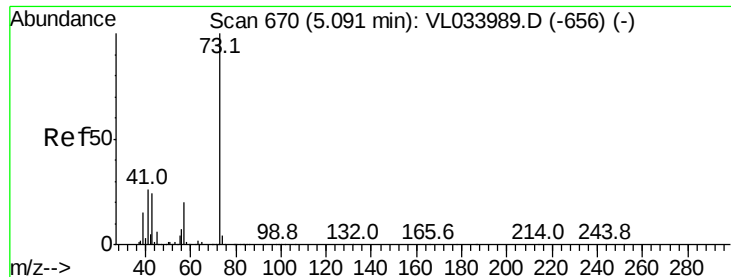
Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Tgt Ion:	76	Resp:	8661
Ion	Ratio	Lower	Upper
76	100		
44	0.0	12.6	18.8#
78	26.0	7.2	10.8#





#28

Methyl tert-Butyl Ether

Concen: 0.036 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.02 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

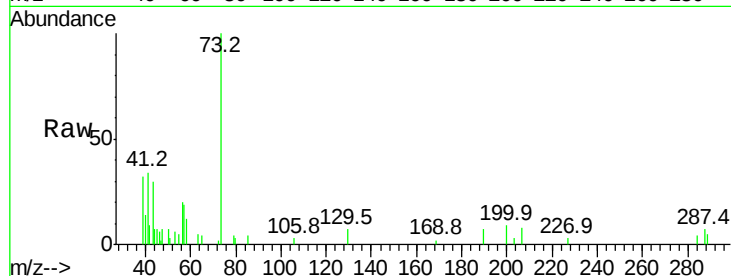
VSTDIC0.1

Tgt Ion: 73 Resp: 5568

Ion Ratio Lower Upper

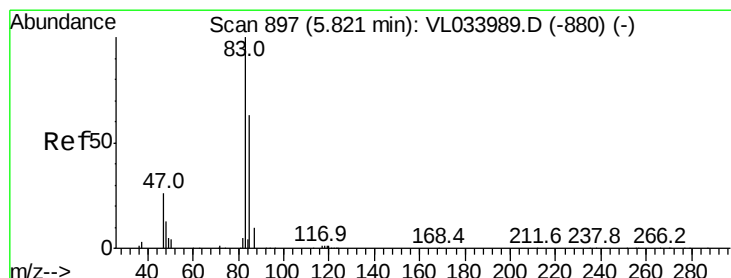
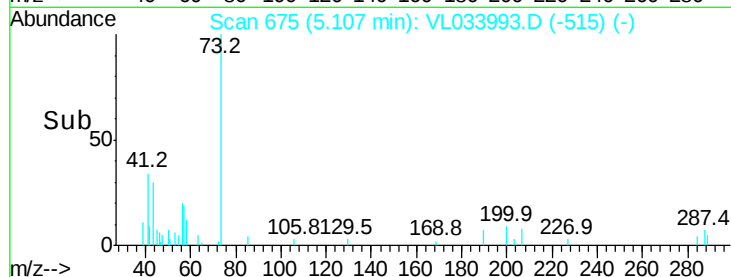
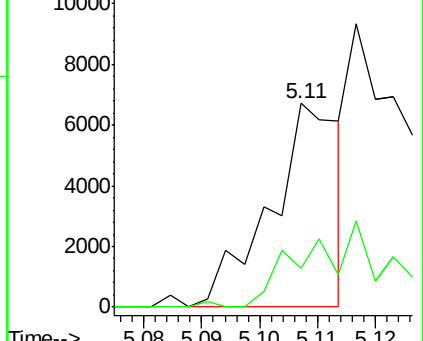
73 100

57 0.0 16.9 25.3#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.068 ppbv

RT: 5.81 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL033993.D

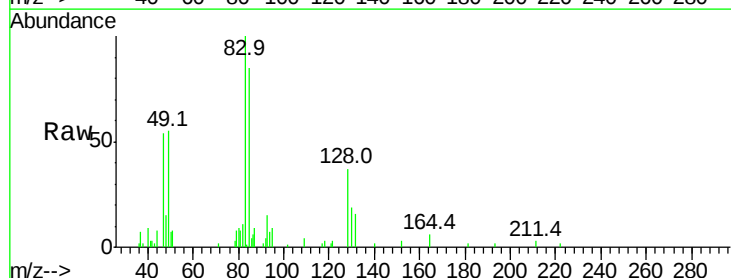
Acq: 2 Jul 2019 16:12

Tgt Ion: 83 Resp: 12016

Ion Ratio Lower Upper

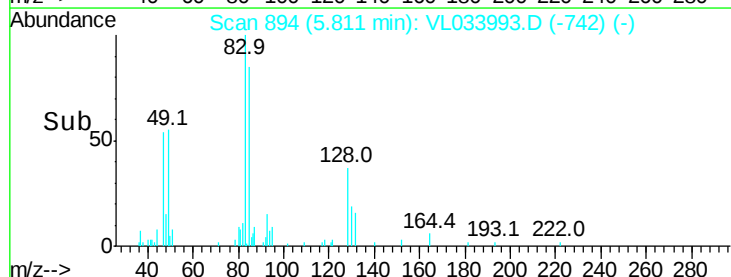
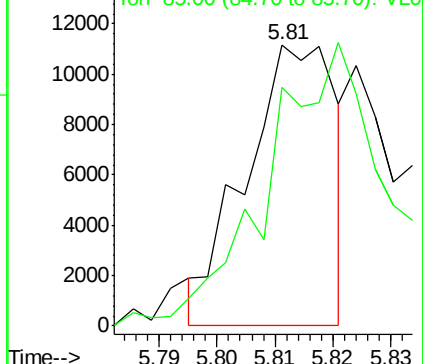
83 100

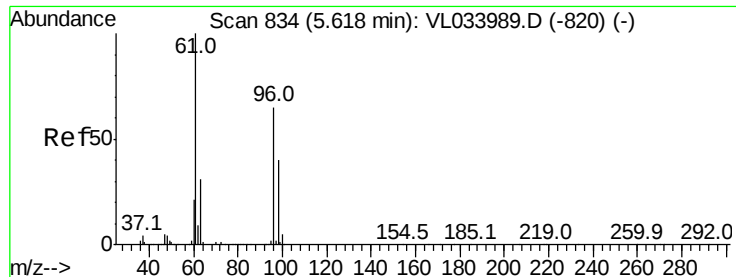
85 90.5 50.6 75.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.065 ppbv

RT: 5.62 min Scan# 834

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

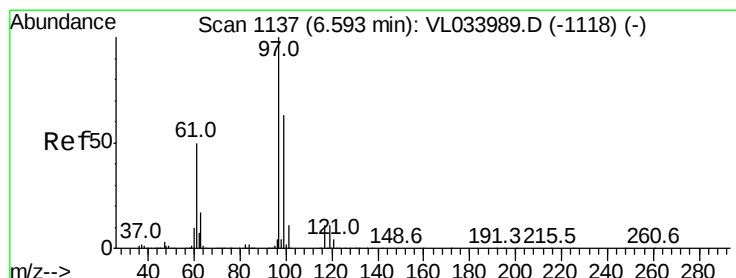
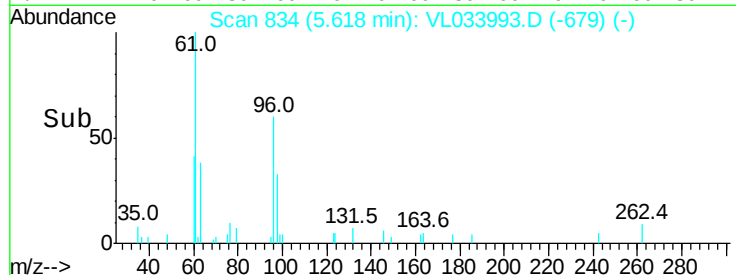
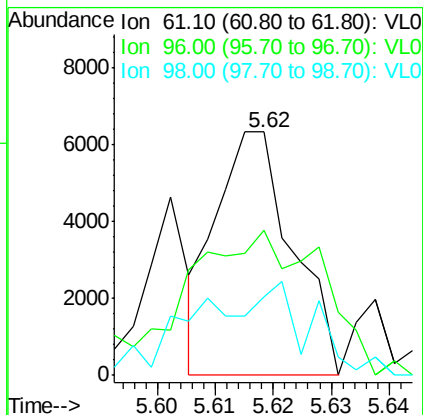
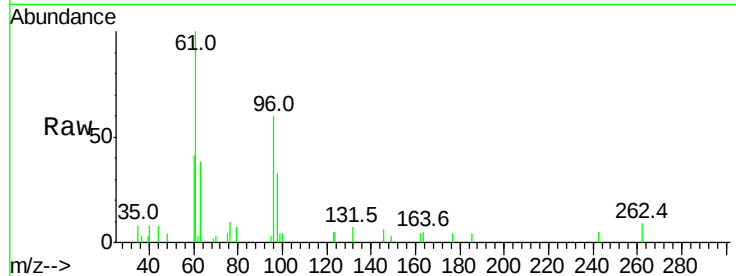
Tgt Ion: 61 Resp: 5811

Ion Ratio Lower Upper

61 100

96 32.5 51.8 77.6#

98 24.1 32.1 48.1#



#32

1,1,1-Trichloroethane

Concen: 0.074 ppbv

RT: 6.58 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

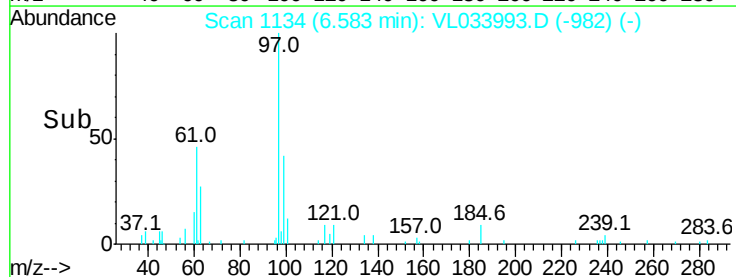
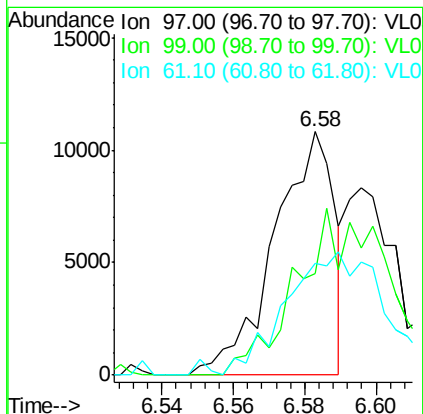
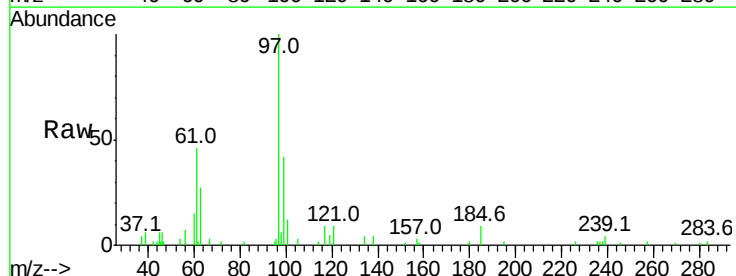
Tgt Ion: 97 Resp: 12544

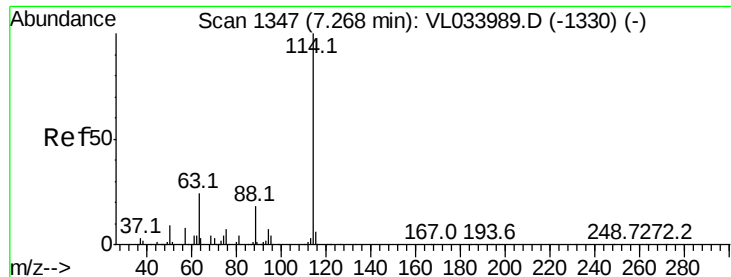
Ion Ratio Lower Upper

97 100

99 102.1 51.9 77.9#

61 89.3 39.8 59.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.26 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

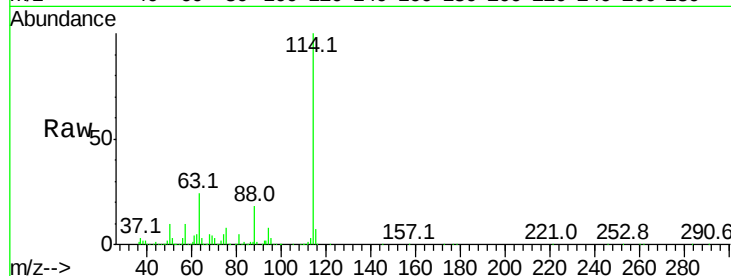
Tgt Ion:114 Resp: 2750790

Ion Ratio Lower Upper

114 100

63 25.3 20.2 30.2

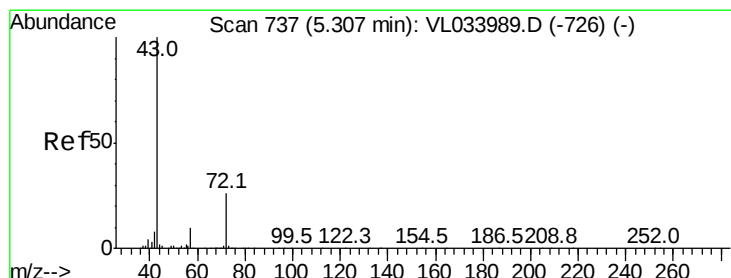
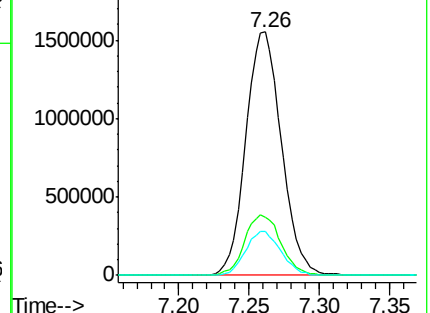
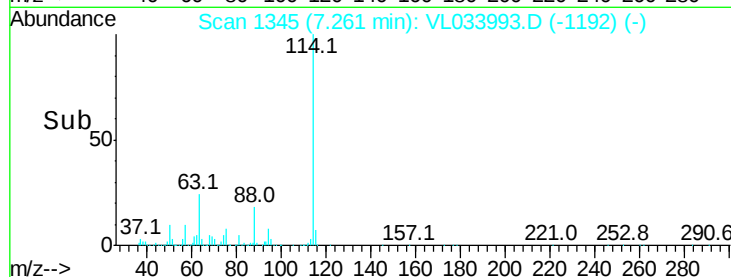
88 18.0 14.1 21.1



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: 0.088 ppbv

RT: 5.33 min Scan# 743

Delta R.T. 0.02 min

Lab File: VL033993.D

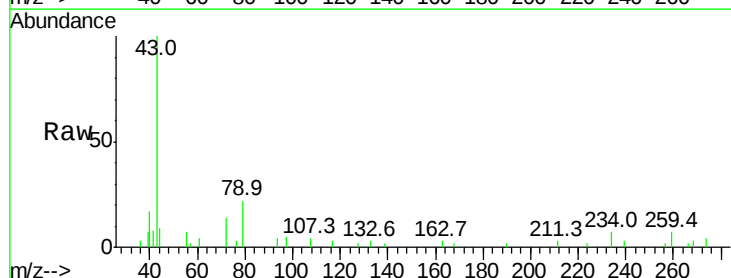
Acq: 2 Jul 2019 16:12

Tgt Ion: 43 Resp: 13662

Ion Ratio Lower Upper

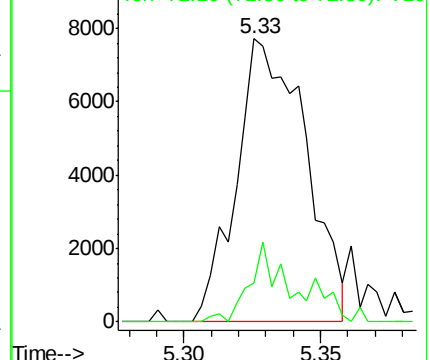
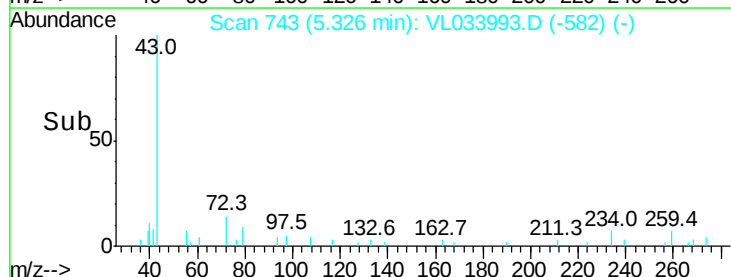
43 100

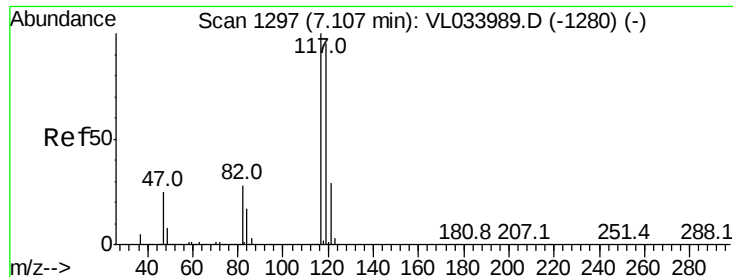
72 18.1 19.9 29.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.034 ppbv

RT: 7.10 min Scan# 1296

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

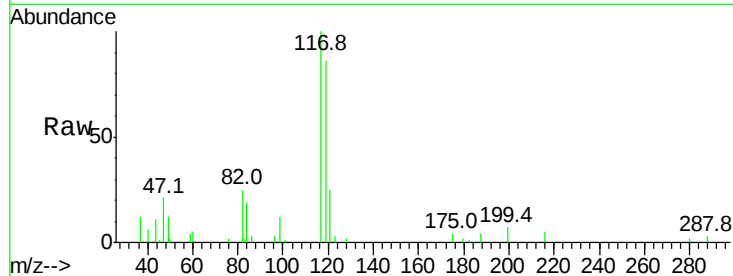
Tgt Ion: 117 Resp: 7207

Ion Ratio Lower Upper

117 100

119 69.2 75.8 113.6#

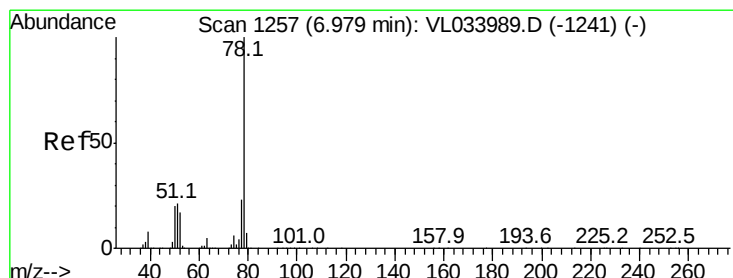
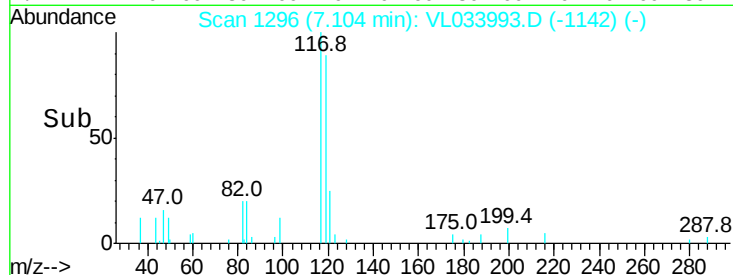
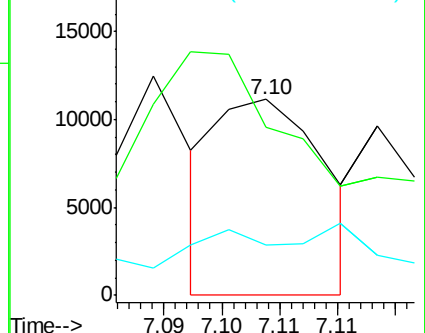
121 0.0 23.4 35.2#



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: 0.078 ppbv

RT: 6.97 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

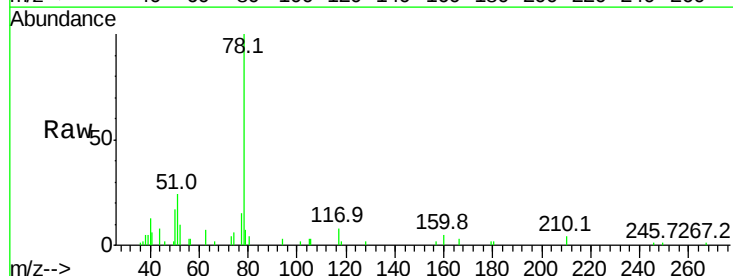
Tgt Ion: 78 Resp: 16456

Ion Ratio Lower Upper

78 100

77 15.9 18.7 28.1#

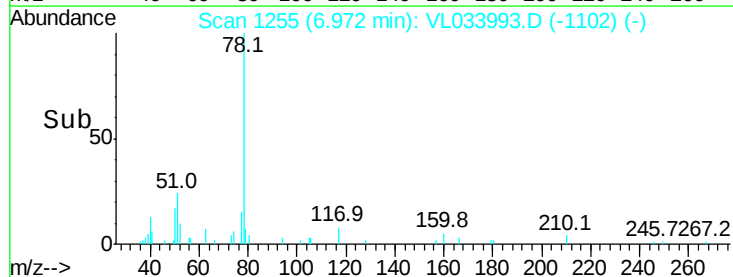
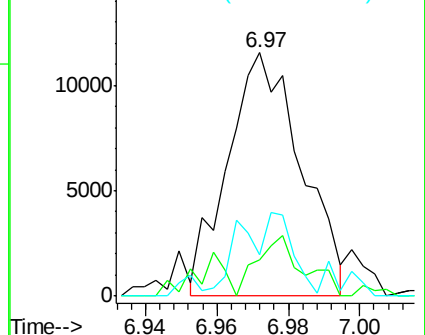
50 15.9 16.2 24.2#

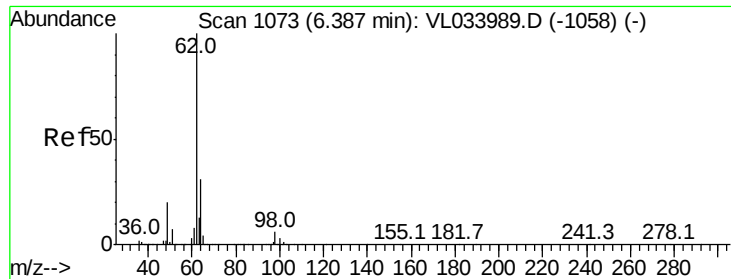


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

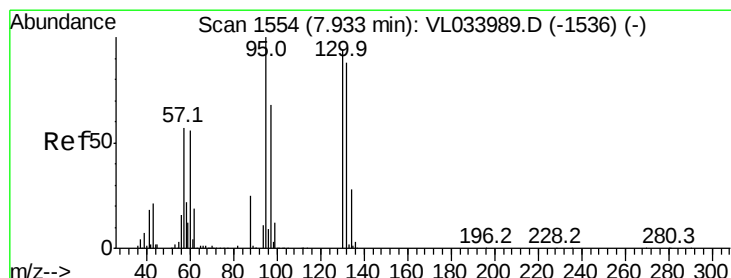
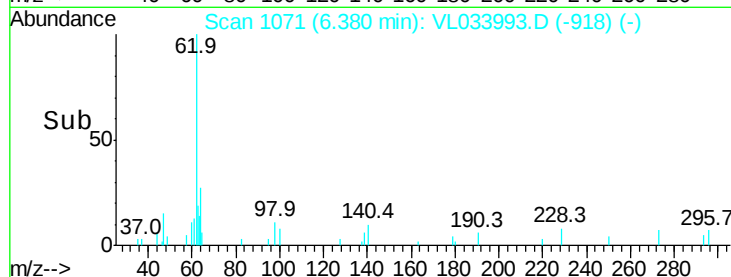
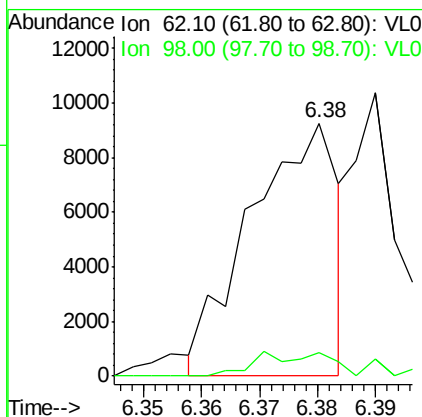
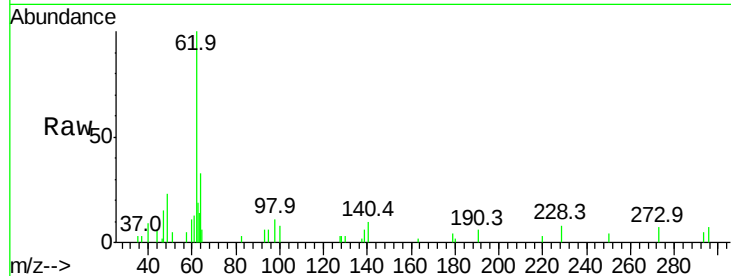




#37
 1,2-Dichloroethane
 Concen: 0.062 ppbv
 RT: 6.38 min Scan# 1071
 Delta R.T. -0.01 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

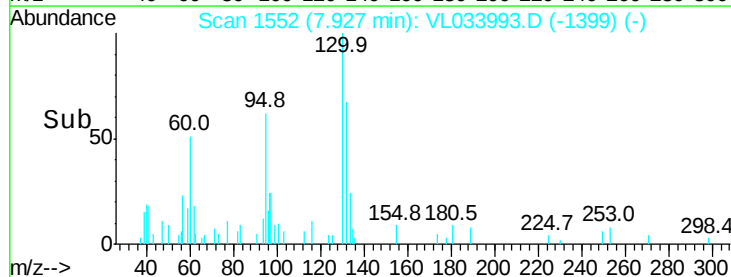
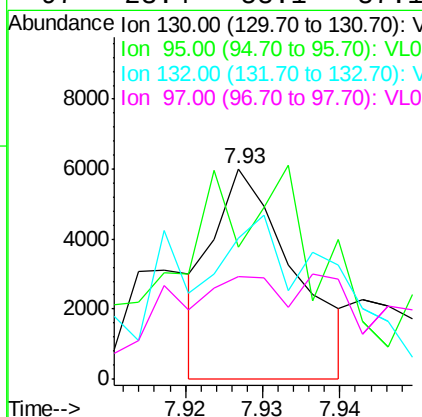
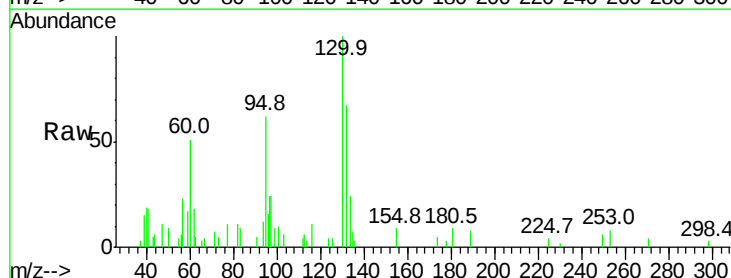
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

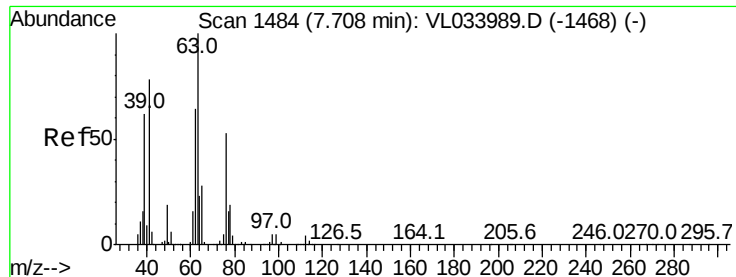
Tgt Ion: 62 Resp: 9666
 Ion Ratio Lower Upper
 62 100
 98 9.5 4.4 6.6#



#38
 Trichloroethene
 Concen: 0.053 ppbv
 RT: 7.93 min Scan# 1552
 Delta R.T. -0.01 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

Tgt Ion: 130 Resp: 4363
 Ion Ratio Lower Upper
 130 100
 95 19.1 85.5 128.3#
 132 39.1 75.1 112.7#
 97 23.4 58.1 87.1#

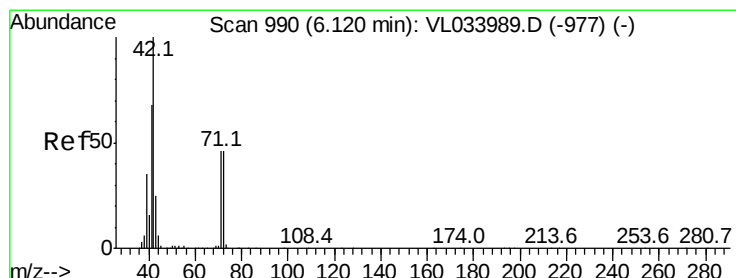
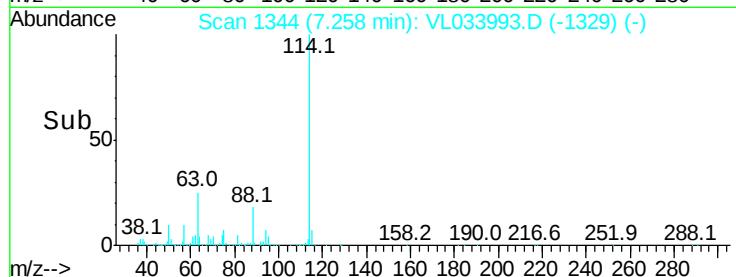
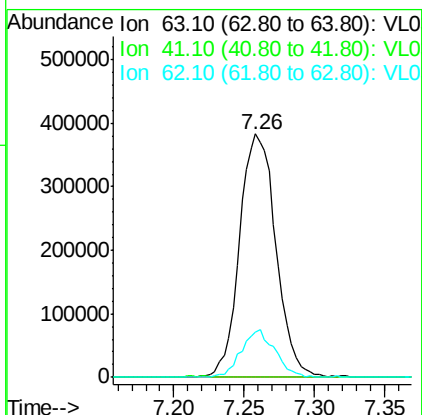
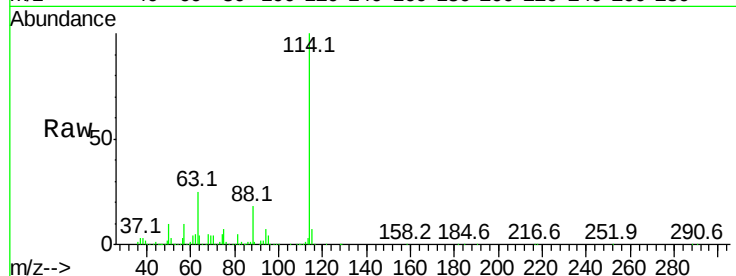




#39
 1,2-Dichloropropane
 Concen: 8.514 ppbv
 RT: 7.26 min Scan# 1344
 Delta R.T. -0.45 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

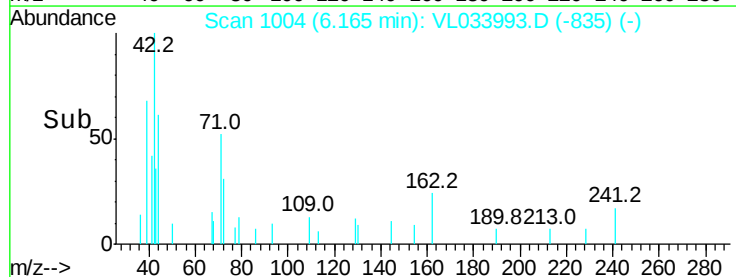
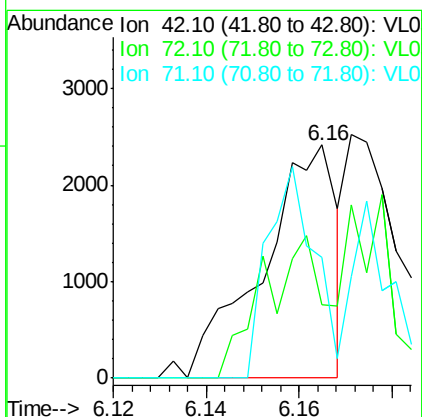
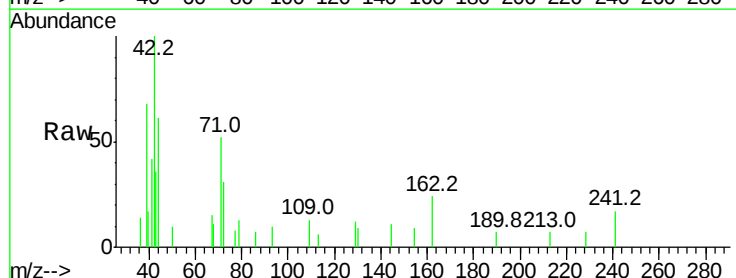
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

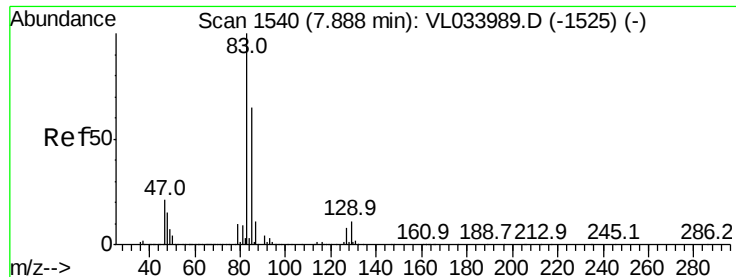
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.3	93.5#
62	18.6	51.4	77.2#



#41
 Tetrahydrofuran
 Concen: 0.034 ppbv
 RT: 6.16 min Scan# 1004
 Delta R.T. 0.04 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.3	55.9#
71	98.6	36.2	54.2#





#42

Bromodichloromethane

Concen: 0.060 ppbv

RT: 7.88 min Scan# 1537

Delta R.T. -0.01 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

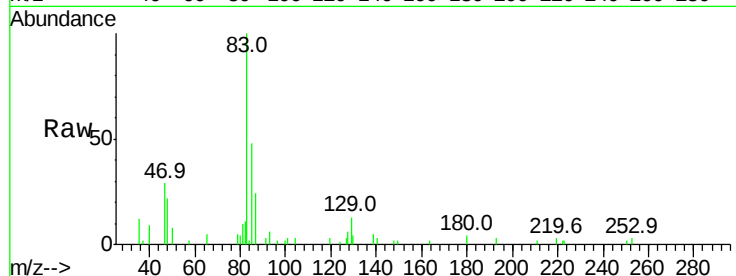
Tgt Ion: 83 Resp: 12389

Ion Ratio Lower Upper

83 100

85 47.7 51.8 77.8#

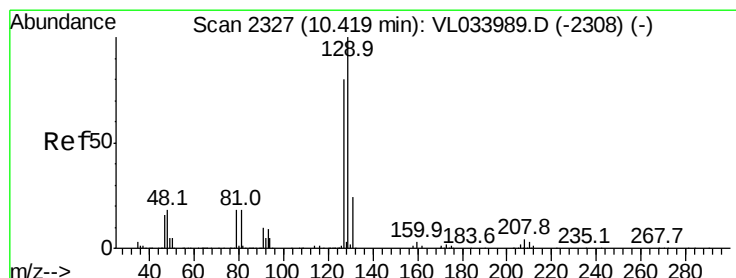
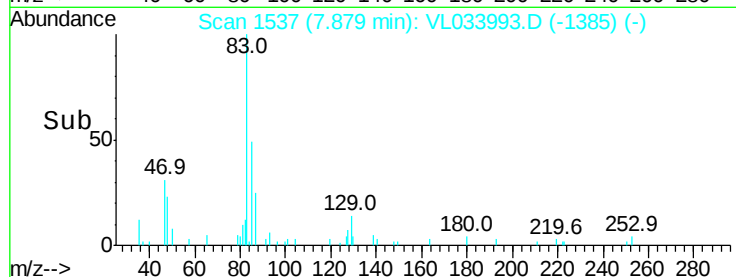
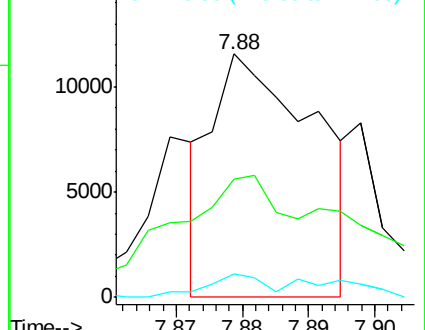
127 20.7 6.5 9.7#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V



#48

Dibromochloromethane

Concen: 0.058 ppbv

RT: 10.41 min Scan# 2324

Delta R.T. -0.01 min

Lab File: VL033993.D

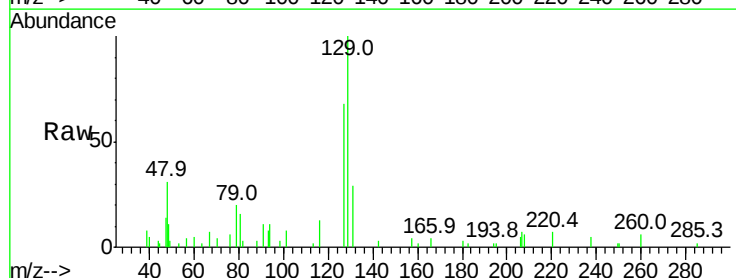
Acq: 2 Jul 2019 16:12

Tgt Ion: 129 Resp: 10141

Ion Ratio Lower Upper

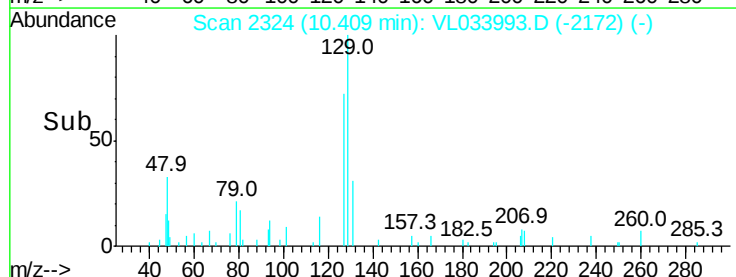
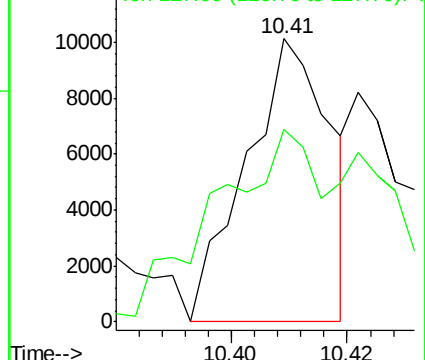
129 100

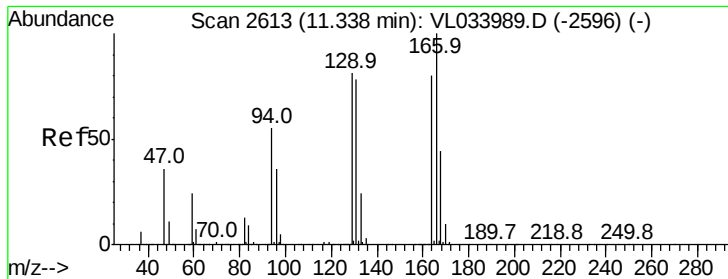
127 143.5 39.1 117.3#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#52

Tetrachloroethene

Concen: 0.107 ppbv

RT: 11.34 min Scan# 2613

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:164 Resp: 7927

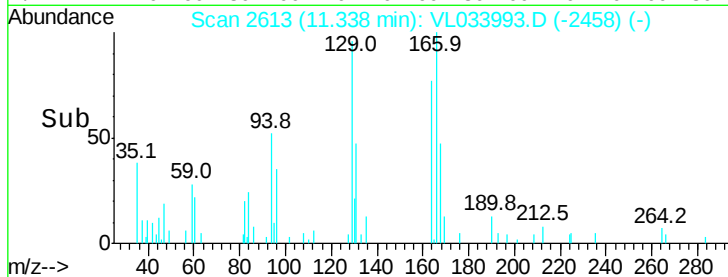
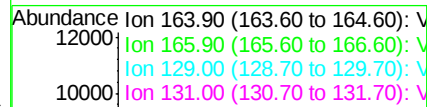
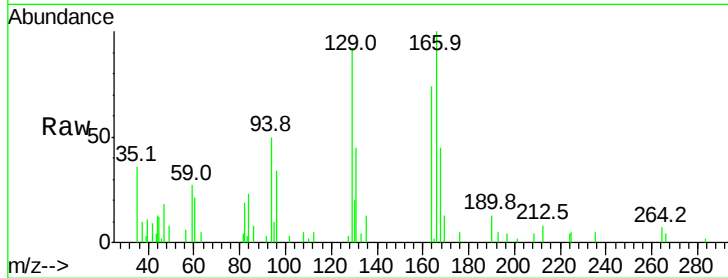
Ion Ratio Lower Upper

164 100

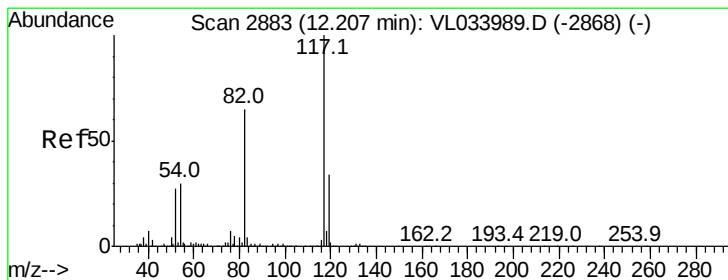
166 108.6 100.2 150.2

129 97.4 81.0 121.6

131 57.2 78.3 117.5#



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.20 min Scan# 2882

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

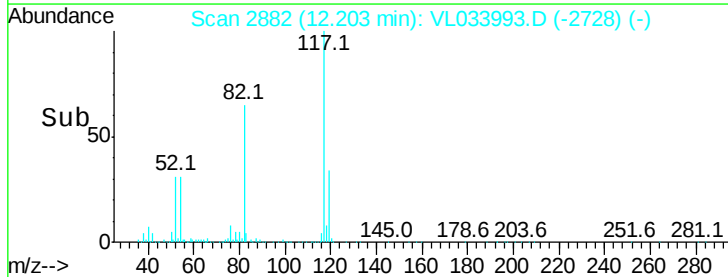
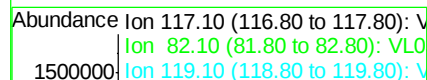
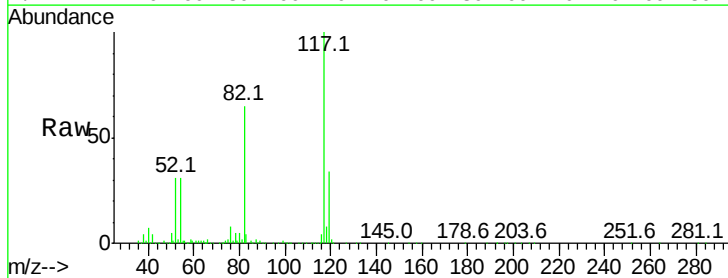
Tgt Ion:117 Resp: 2546318

Ion Ratio Lower Upper

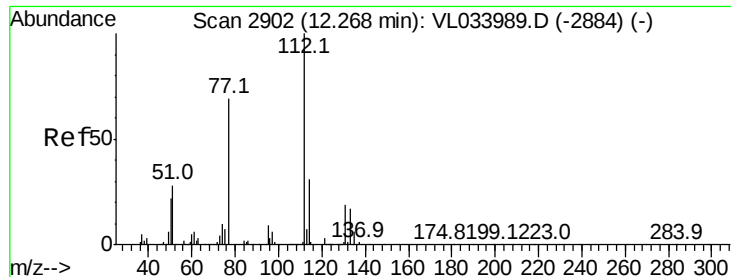
117 100

82 66.2 50.8 76.2

119 33.2 24.0 36.0



Time-->



#57

Chlorobenzene

Concen: 0.042 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

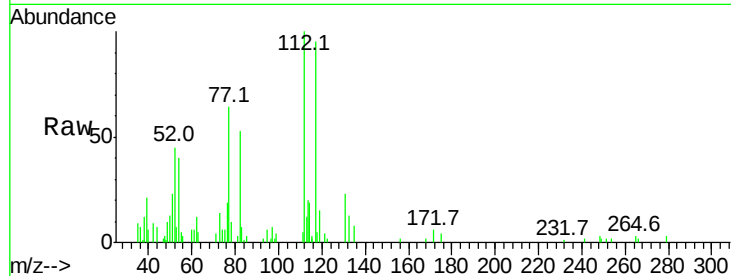
Tgt Ion: 112 Resp: 7969

Ion Ratio Lower Upper

112 100

77 32.2 55.9 83.9#

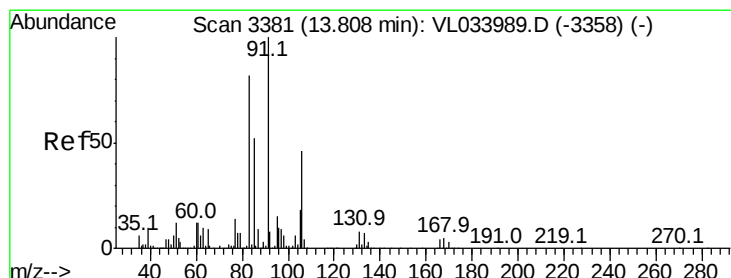
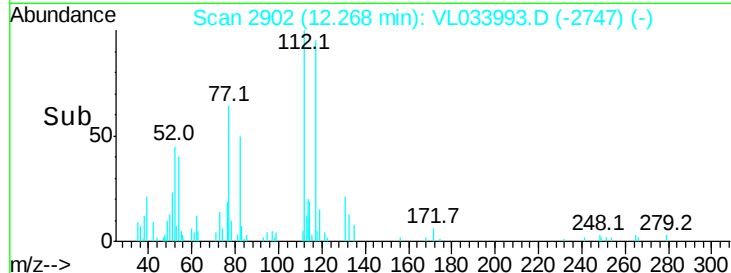
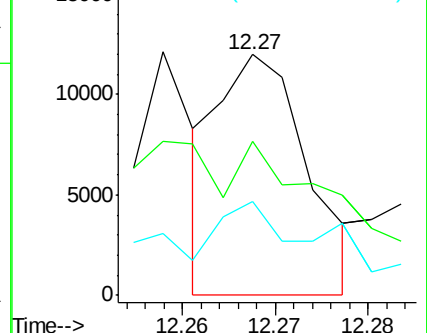
114 34.6 27.6 33.8#



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



#63

1,1,2,2-Tetrachloroethane

Concen: 0.049 ppbv

RT: 13.81 min Scan# 3381

Delta R.T. -0.00 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

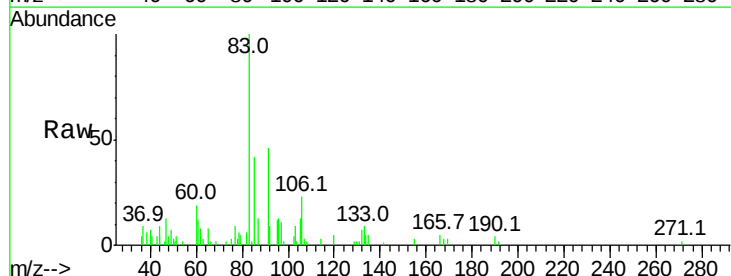
Tgt Ion: 83 Resp: 9924

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

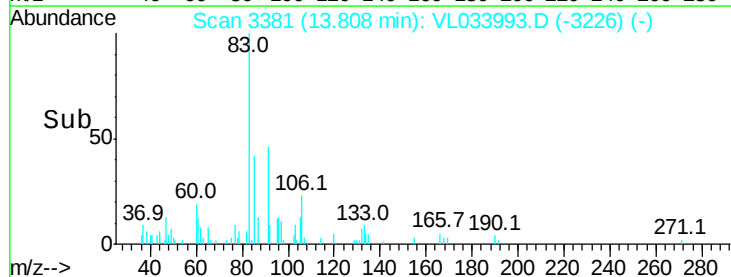
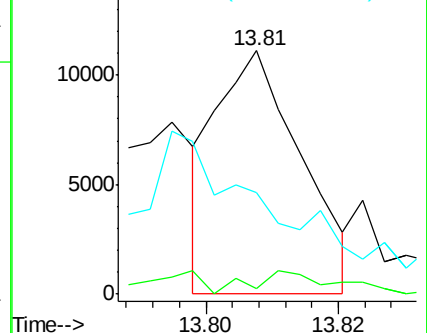
85 0.0 32.8 98.3#

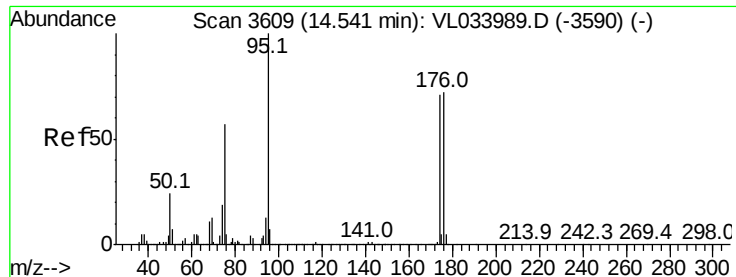


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

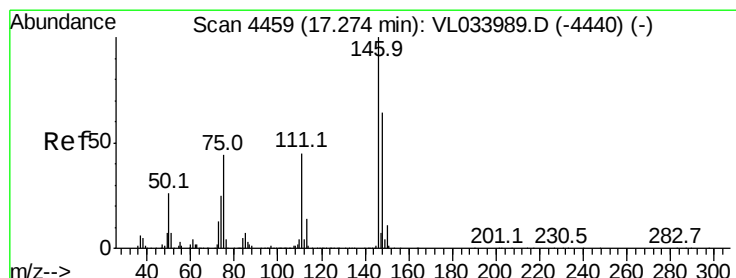
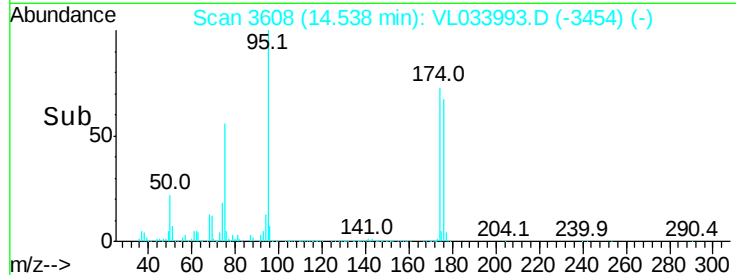
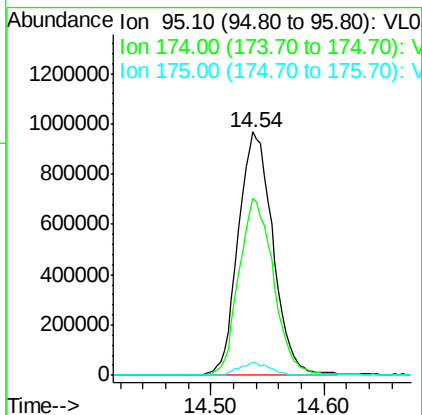
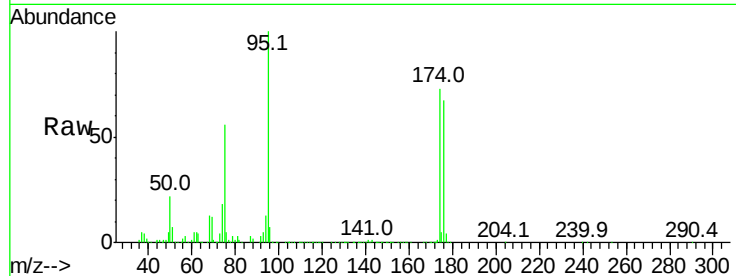




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.887 ppbv
 RT: 14.54 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

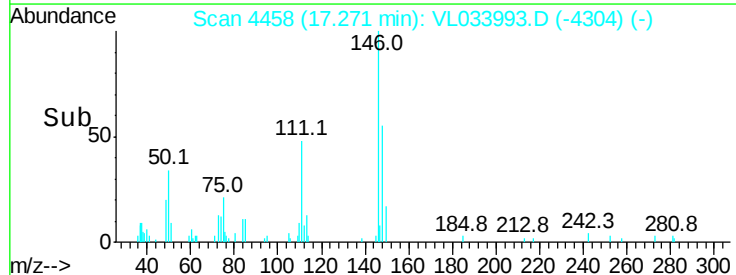
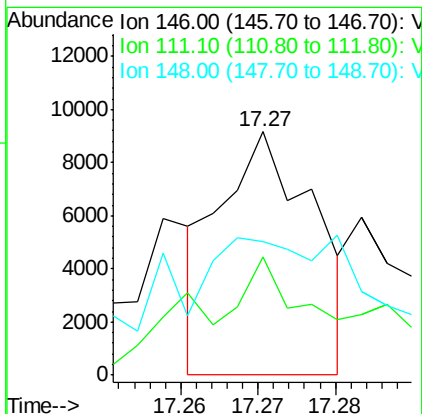
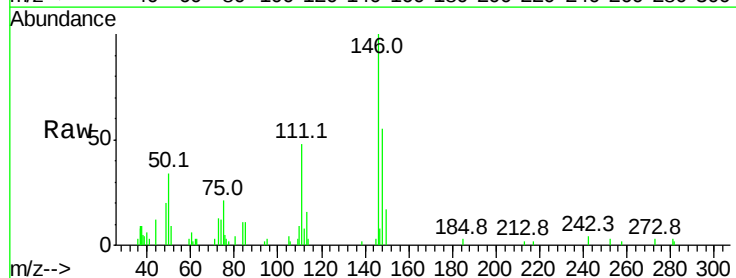
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

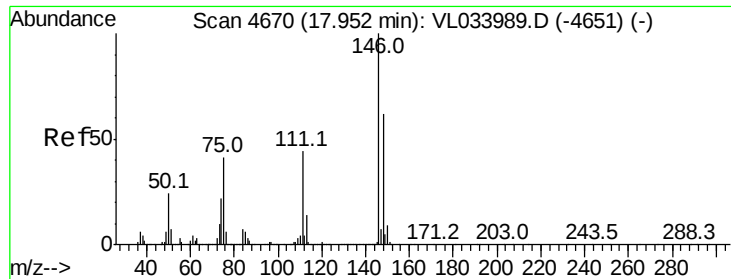
Tgt Ion: 95 Resp: 2067826
 Ion Ratio Lower Upper
 95 100
 174 73.7 60.5 90.7
 175 5.0 4.0 6.0



#76
 1,4-Dichlorobenzene
 Concen: 0.039 ppbv
 RT: 17.27 min Scan# 4458
 Delta R.T. -0.00 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

Tgt Ion: 146 Resp: 7776
 Ion Ratio Lower Upper
 146 100
 111 93.4 21.9 65.5#
 148 0.0 32.5 97.5#

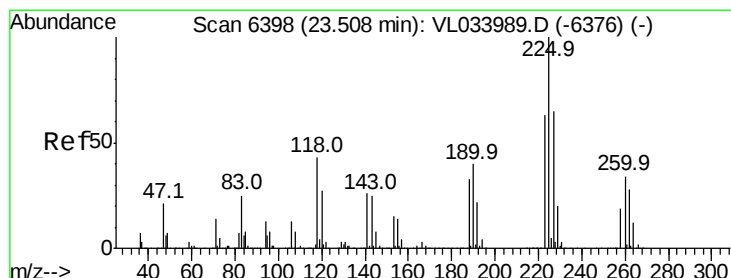
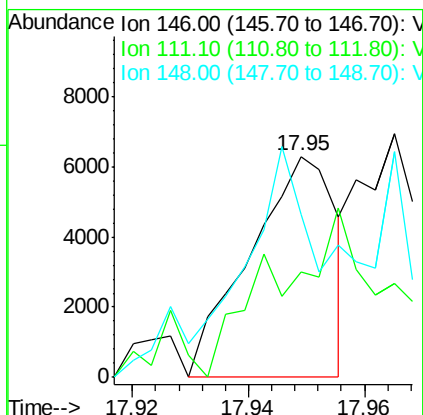
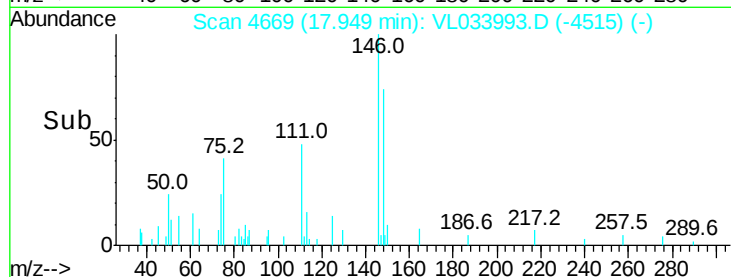
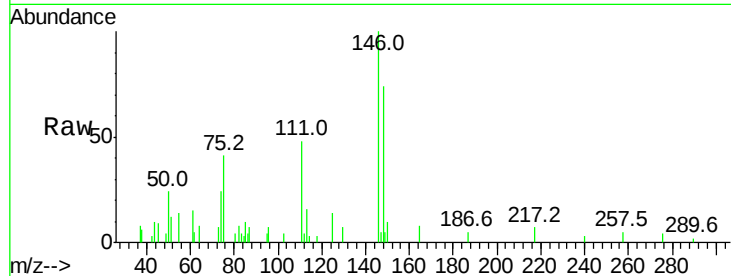




#77
 1,2-Dichlorobenzene
 Concen: 0.032 ppbv
 RT: 17.95 min Scan# 4669
 Delta R.T. -0.00 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

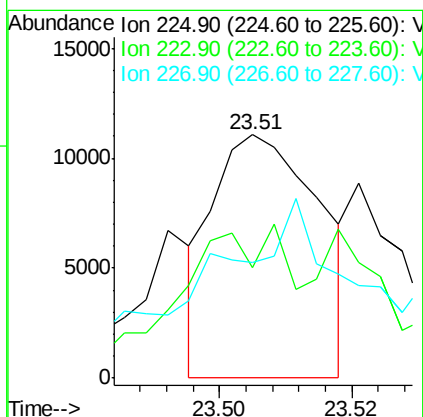
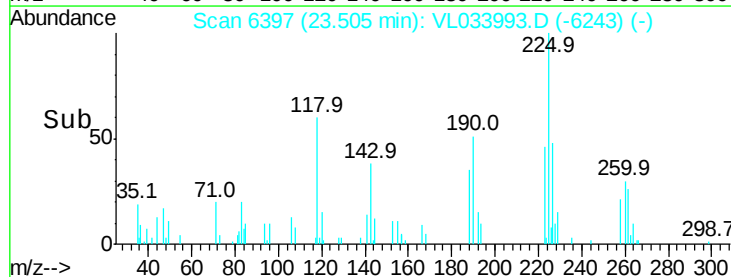
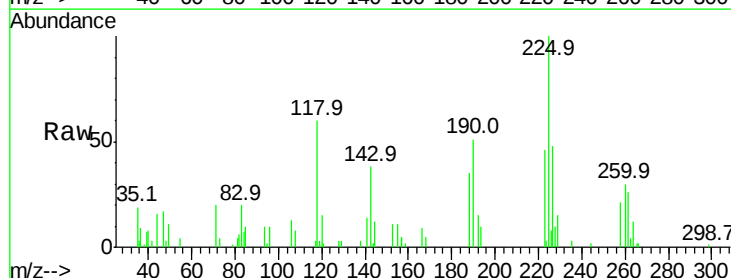
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

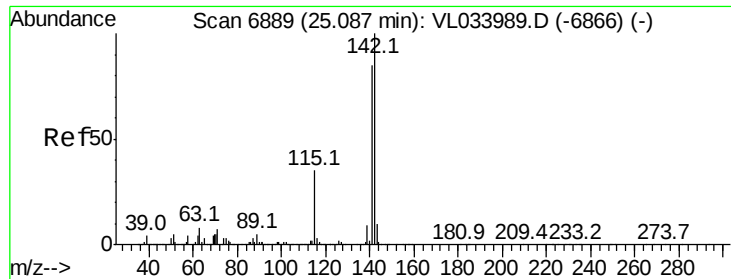
Tgt Ion:146 Resp: 6454
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.7 68.1#
 148 191.1 32.1 96.3#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.078 ppbv
 RT: 23.51 min Scan# 6397
 Delta R.T. -0.00 min
 Lab File: VL033993.D
 Acq: 2 Jul 2019 16:12

Tgt Ion:225 Resp: 12339
 Ion Ratio Lower Upper
 225 100
 223 122.3 51.5 77.3#
 227 124.9 52.1 78.1#





#80

Naphthalene, 2-methyl-

Concen: 0.062 ppbv

RT: 25.10 min Scan# 6893

Delta R.T. 0.01 min

Lab File: VL033993.D

Acq: 2 Jul 2019 16:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

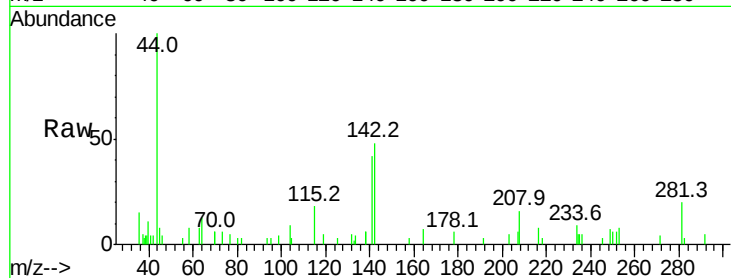
Tgt Ion:142 Resp: 6894

Ion Ratio Lower Upper

142 100

141 92.1 68.2 102.2

115 38.5 29.9 44.9



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

