

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL123019\
 Data File : VL034520.D
 Acq On : 30 Dec 2019 20:30
 Operator : SY/AP
 Sample : K6388-03DUP
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDUP

Quant Time: Dec 31 05:01:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	867323	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1765606	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1726065	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1491420	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

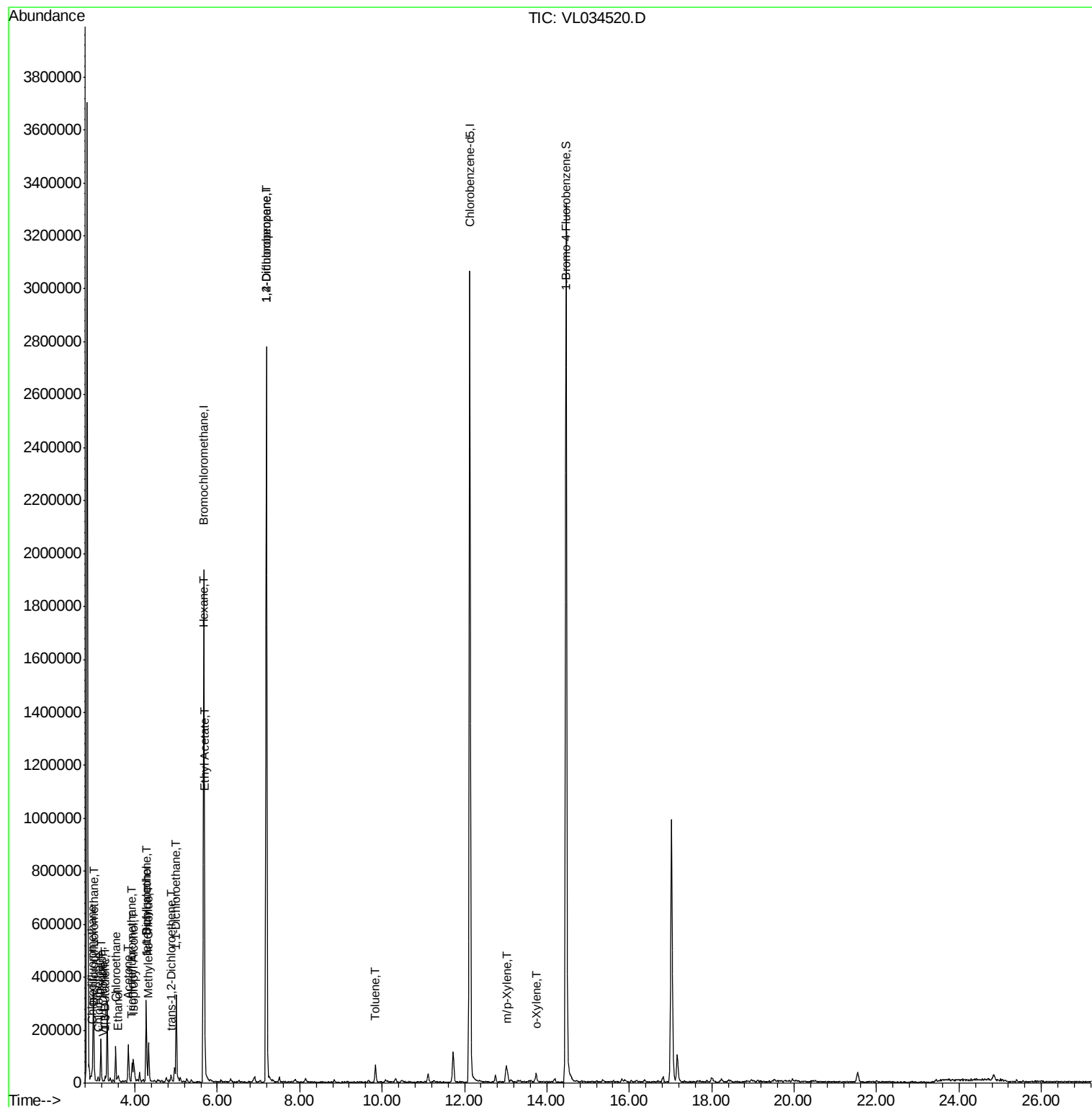
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	28442	0.208	ppbv #	80
3) Chlorodifluoromethane	2.95	51	36119	0.350	ppbv	92
4) Chloromethane	3.11	50	5349	0.087	ppbv #	62
5) Vinyl Chloride	3.23	62	2595	0.043	ppbv #	83
7) Chloroethane	3.53	64	77748	3.712	ppbv	95
9) Propene	3.17	41	36503	0.916	ppbv	98
11) Trichlorofluoromethane	3.93	101	25947	0.164	ppbv	99
13) Ethanol	3.59	45	10372	0.938	ppbv #	38
15) Acetone	3.83	43	136334	1.077	ppbv	98
16) 1,3-Butadiene	3.28	39	4351	0.089	ppbv #	22
17) tert-Butyl alcohol	4.28	59	4779	0.047	ppbv #	72
18) 1,1-Dichloroethene	4.28	96	75841	1.729	ppbv	94
19) Isopropyl Alcohol	3.96	45	34543	0.422	ppbv #	77
20) Methylene Chloride	4.33	84	47163	0.947	ppbv	85
22) trans-1,2-Dichloroethene	4.88	96	1492	0.033	ppbv #	34
24) 1,1-Dichloroethane	5.01	63	250905	2.137	ppbv	100
25) Ethyl Acetate	5.69	43	23267	0.118	ppbv #	81
26) Hexane	5.69	57	26269	0.315	ppbv #	43
39) 1,2-Dichloropropane	7.19	63	522637	8.258	ppbv #	21
53) Toluene	9.84	91	12895	0.076	ppbv #	1
59) m/p-Xylene	13.04	91	9426	0.046	ppbv #	32
60) o-Xylene	13.74	91	14821	0.073	ppbv #	33

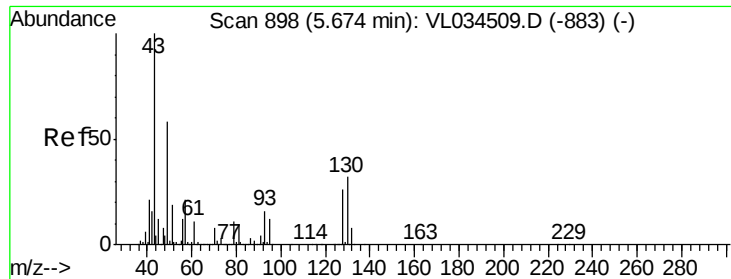
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034520.D

Acq: 30 Dec 2019 20:30

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDUP

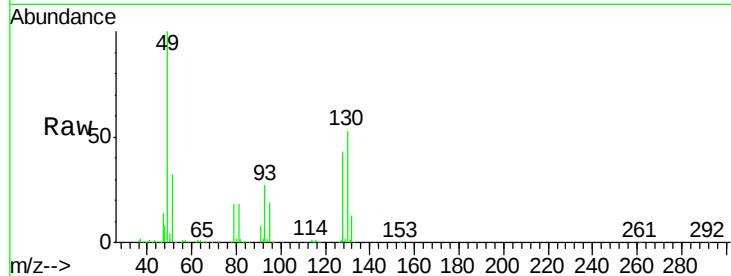
Tgt Ion: 49 Resp: 867323

Ion Ratio Lower Upper

49 100

128 45.1 22.4 67.2

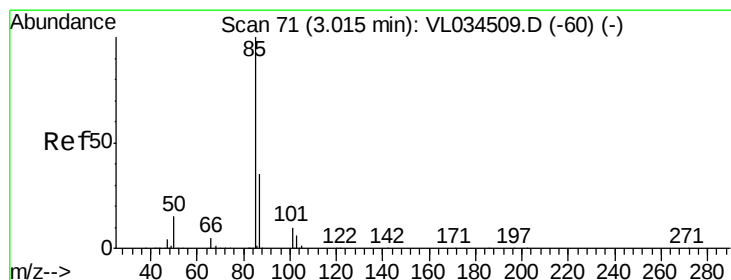
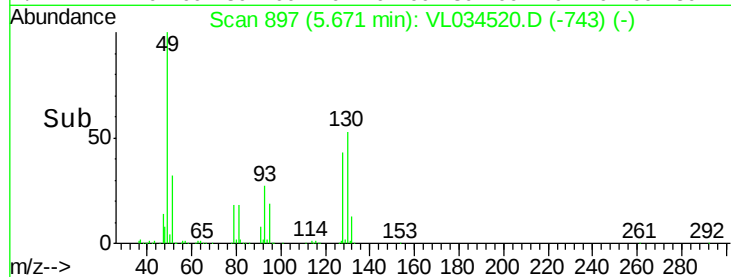
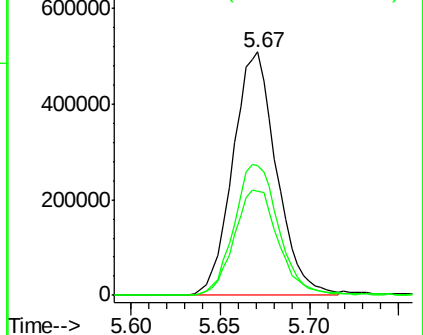
130 56.0 28.3 85.0



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: 0.208 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL034520.D

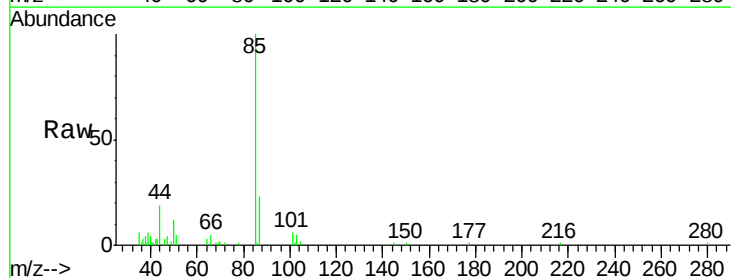
Acq: 30 Dec 2019 20:30

Tgt Ion: 85 Resp: 28442

Ion Ratio Lower Upper

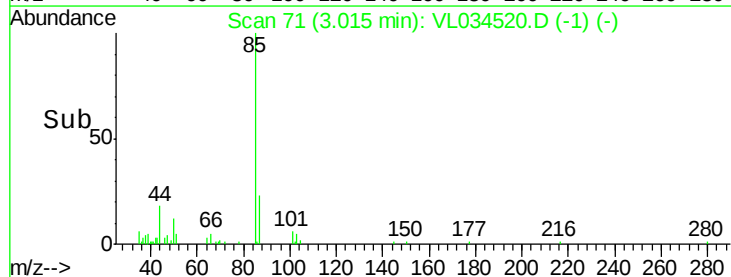
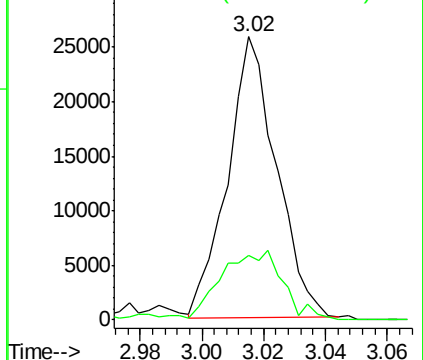
85 100

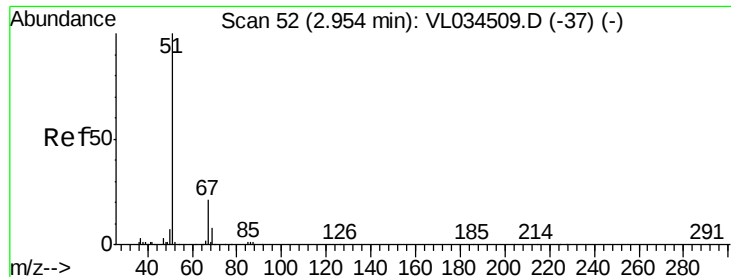
87 23.2 27.9 41.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.350 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.00 min

Lab File: VL034520.D

Acq: 30 Dec 2019 20:30

Instrument :

MSVOA_L

ClientSampleId :

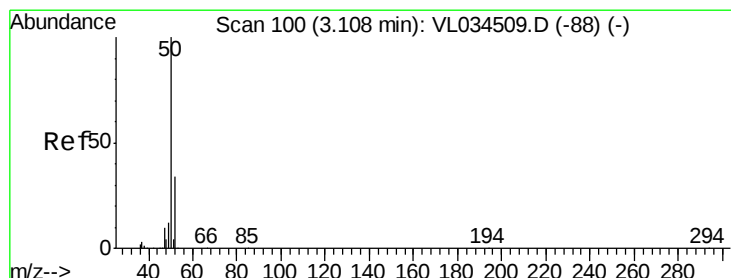
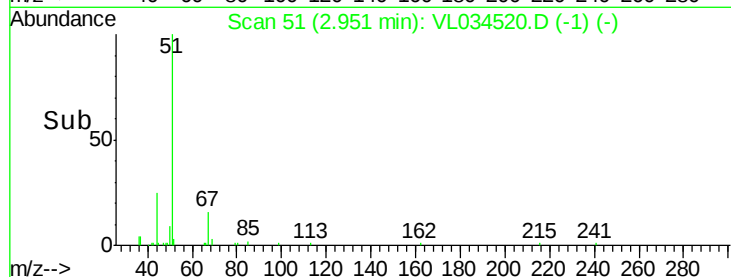
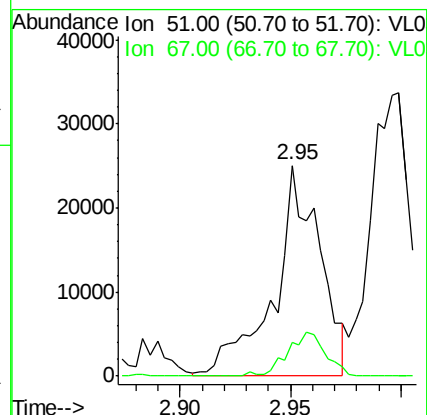
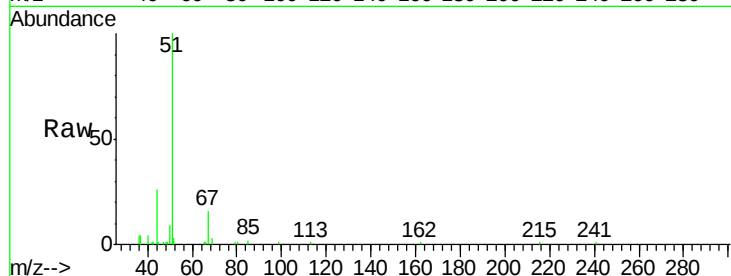
EFFLUENTDUP

Tgt Ion: 51 Resp: 36119

Ion Ratio Lower Upper

51 100

67 17.3 16.8 25.2



#4

Chloromethane

Concen: 0.087 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.00 min

Lab File: VL034520.D

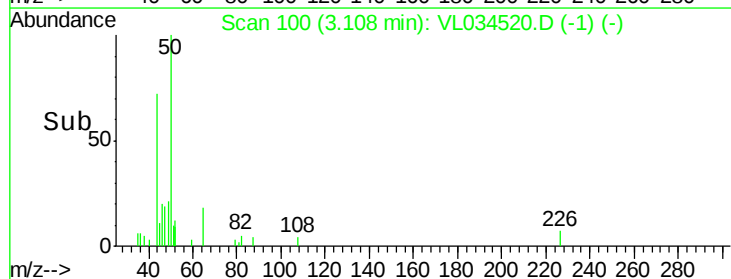
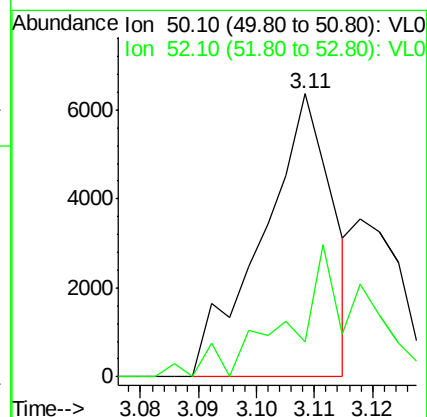
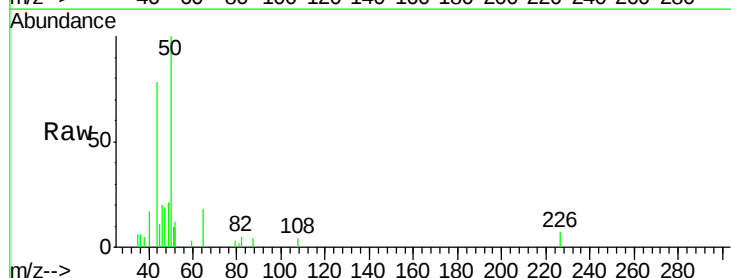
Acq: 30 Dec 2019 20:30

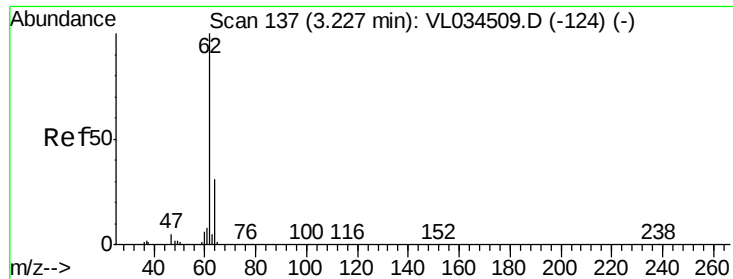
Tgt Ion: 50 Resp: 5349

Ion Ratio Lower Upper

50 100

52 12.3 27.6 41.4#





#5

Vinyl Chloride

Concen: 0.043 ppbv

RT: 3.23 min Scan# 138

Delta R.T. 0.00 min

Lab File: VL034520.D

Acq: 30 Dec 2019 20:30

Instrument :

MSVOA_L

ClientSampleId :

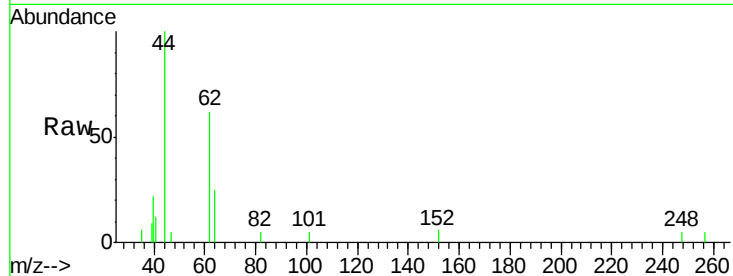
EFFLUENTDUP

Tgt Ion: 62 Resp: 2595

Ion Ratio Lower Upper

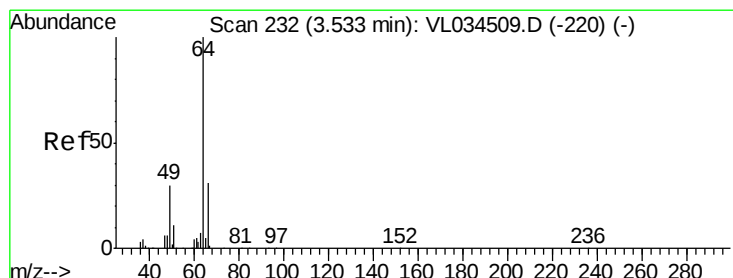
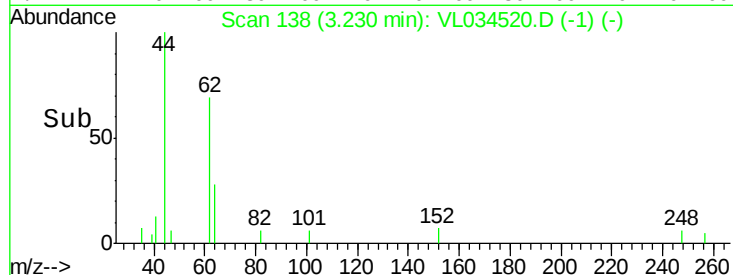
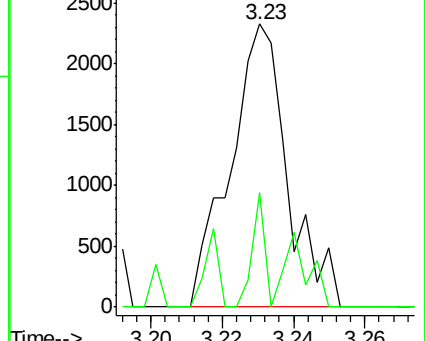
62 100

64 40.2 24.9 37.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 3.712 ppbv

RT: 3.53 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL034520.D

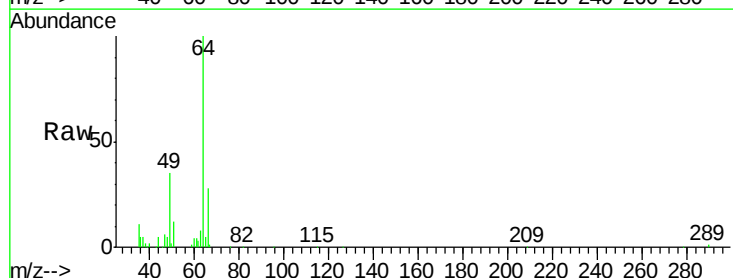
Acq: 30 Dec 2019 20:30

Tgt Ion: 64 Resp: 77748

Ion Ratio Lower Upper

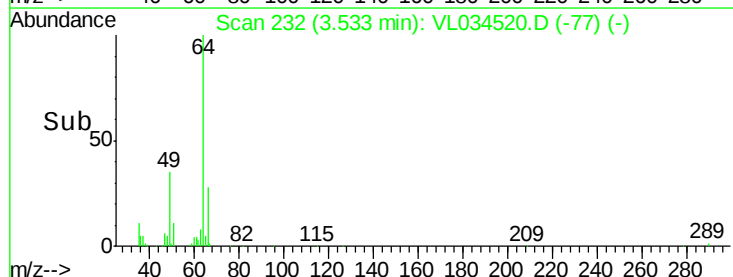
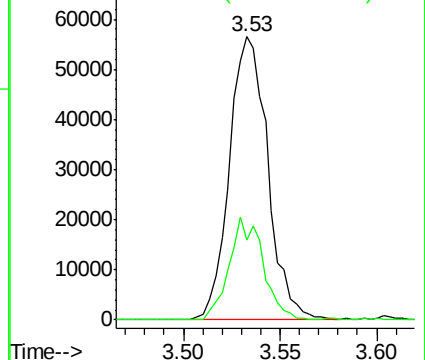
64 100

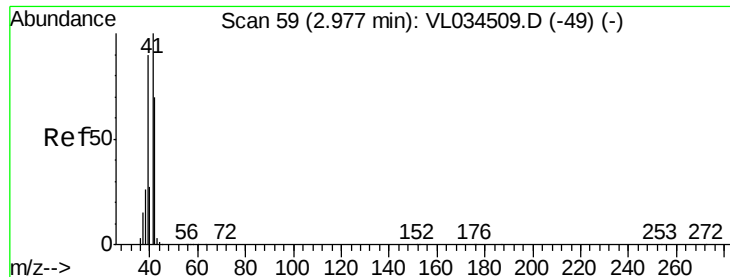
66 28.2 25.0 37.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 0.916 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.20 min

Lab File: VL034520.D

Acq: 30 Dec 2019 20:30

Instrument :

MSVOA_L

ClientSampleId :

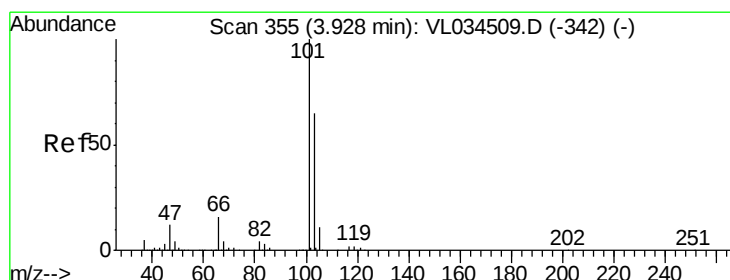
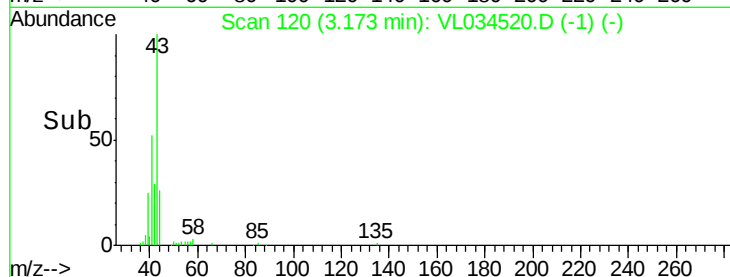
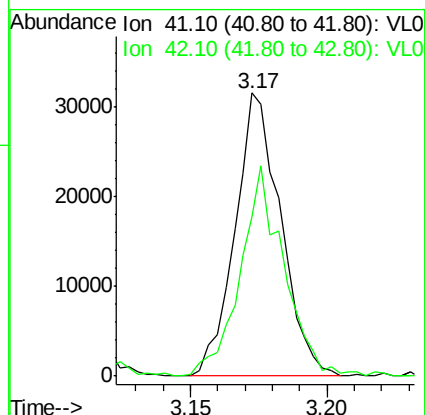
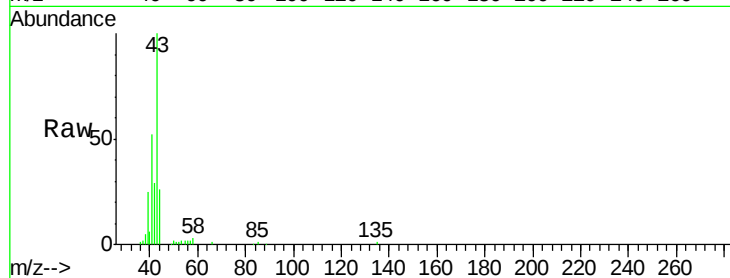
EFFLUENTDUP

Tgt Ion: 41 Resp: 36503

Ion Ratio Lower Upper

41 100

42 71.2 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.164 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.00 min

Lab File: VL034520.D

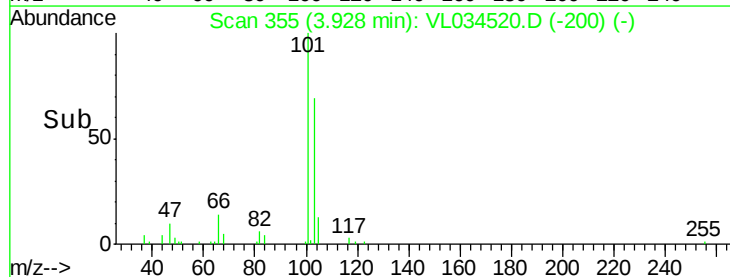
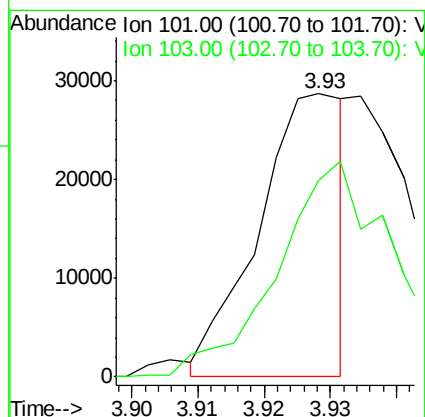
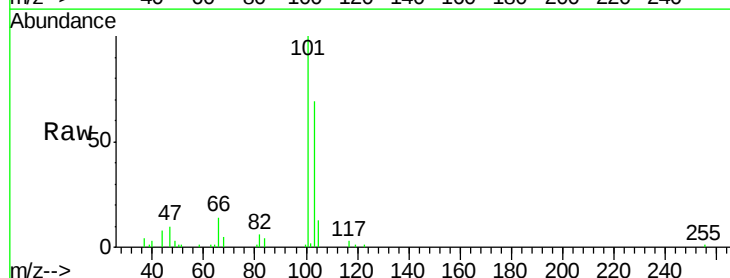
Acq: 30 Dec 2019 20:30

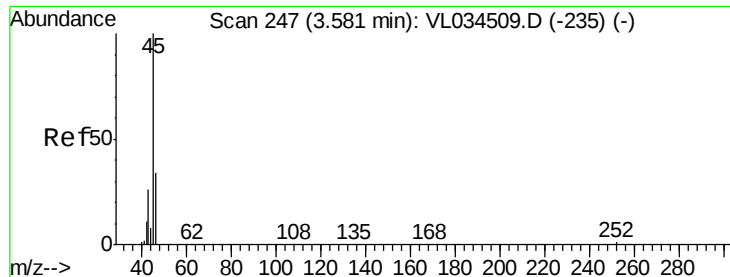
Tgt Ion: 101 Resp: 25947

Ion Ratio Lower Upper

101 100

103 64.7 52.1 78.1





#13

Ethanol

Concen: 0.938 ppbv

RT: 3.59 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL034520.D

Acq: 30 Dec 2019 20:30

Instrument :

MSVOA_L

ClientSampleId :

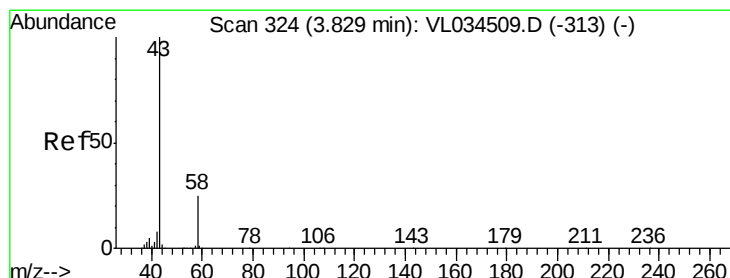
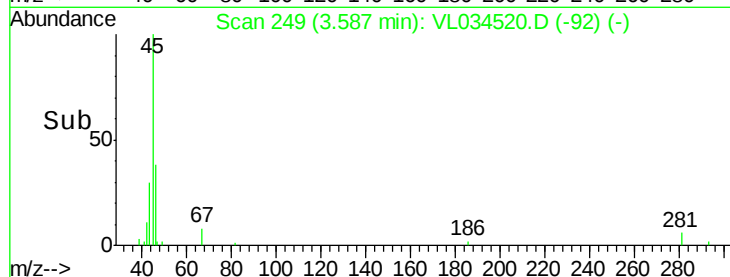
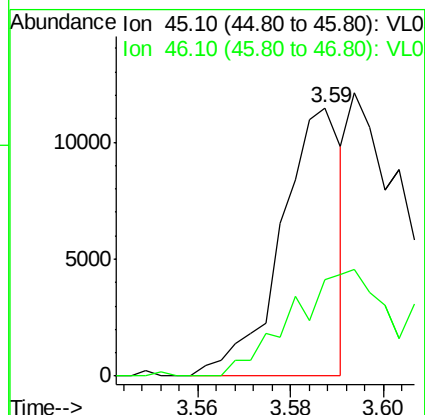
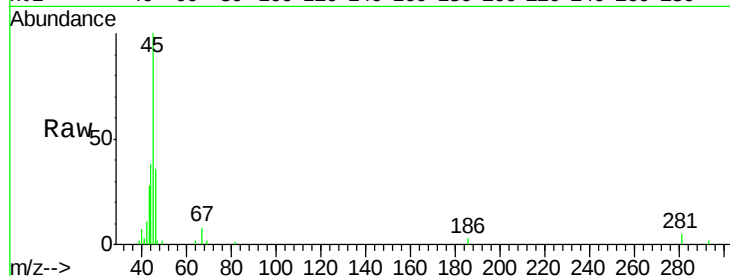
EFFLUENTDUP

Tgt Ion: 45 Resp: 10372

Ion Ratio Lower Upper

45 100

46 0.0 14.9 59.7#



#15

Acetone

Concen: 1.077 ppbv

RT: 3.83 min Scan# 326

Delta R.T. 0.01 min

Lab File: VL034520.D

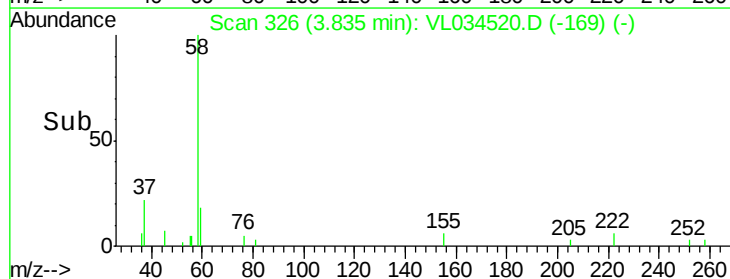
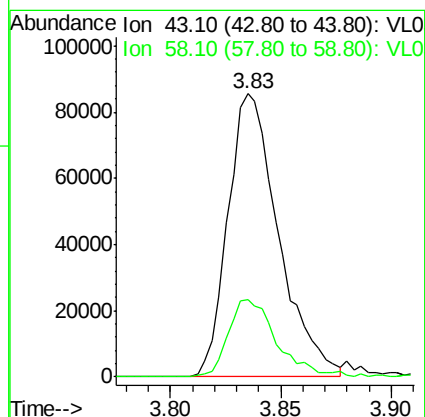
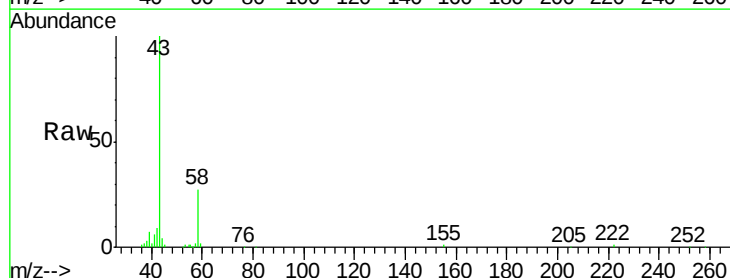
Acq: 30 Dec 2019 20:30

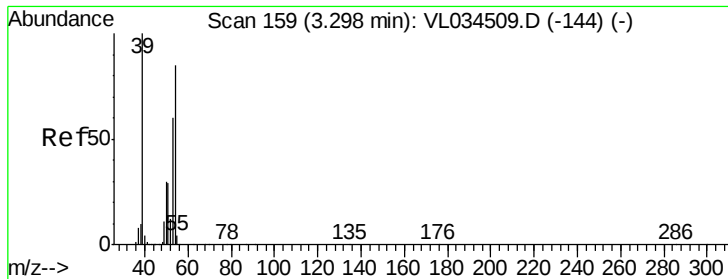
Tgt Ion: 43 Resp: 136334

Ion Ratio Lower Upper

43 100

58 26.6 20.4 30.6

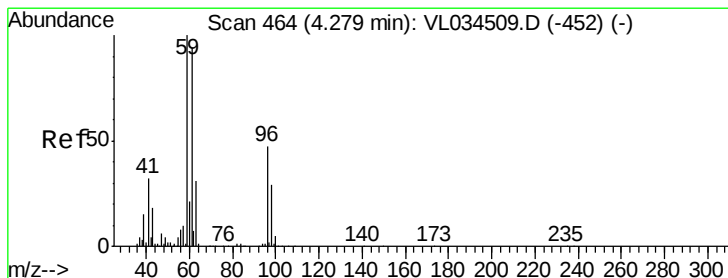
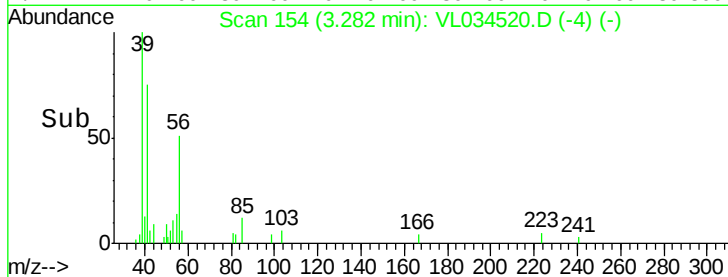
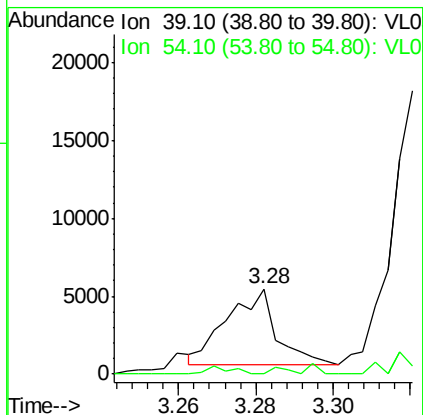
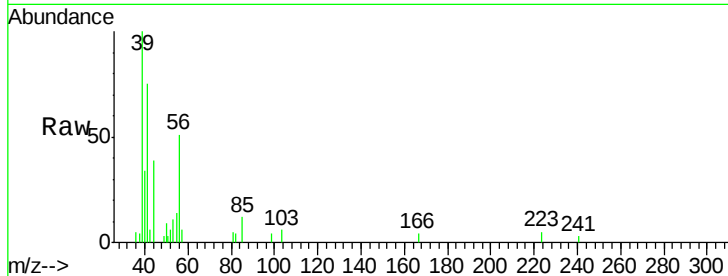




#16
 1,3-Butadiene
 Concen: 0.089 ppbv
 RT: 3.28 min Scan# 154
 Delta R.T. -0.02 min
 Lab File: VL034520.D
 Acq: 30 Dec 2019 20:30

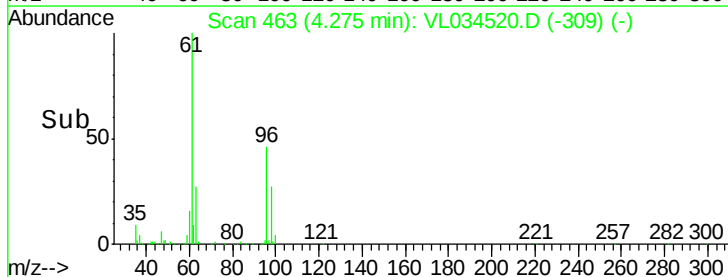
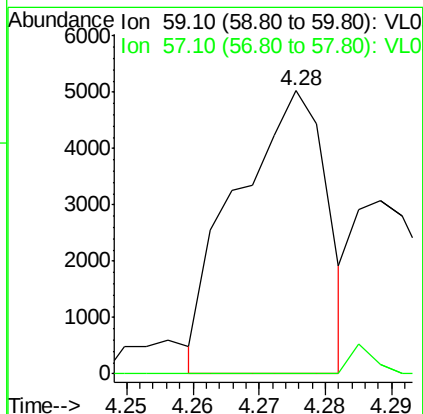
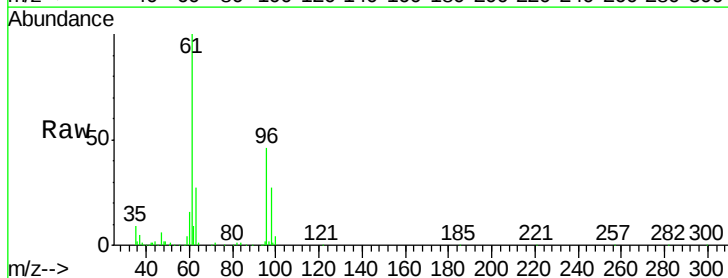
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDUP

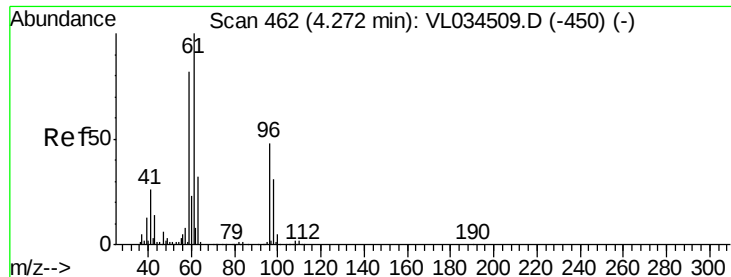
Tgt Ion: 39 Resp: 4351
 Ion Ratio Lower Upper
 39 100
 54 12.3 66.2 99.2#



#17
 tert-Butyl alcohol
 Concen: 0.047 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. -0.00 min
 Lab File: VL034520.D
 Acq: 30 Dec 2019 20:30

Tgt Ion: 59 Resp: 4779
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#





#18

1,1-Dichloroethene

Concen: 1.729 ppbv

RT: 4.28 min Scan# 463

Delta R.T. 0.00 min

Lab File: VL034520.D

Acq: 30 Dec 2019 20:30

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDUP

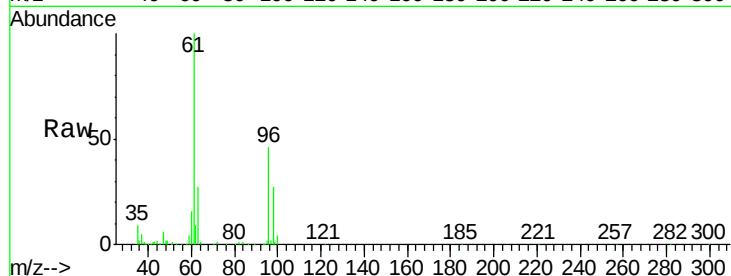
Tgt Ion: 96 Resp: 75841

Ion Ratio Lower Upper

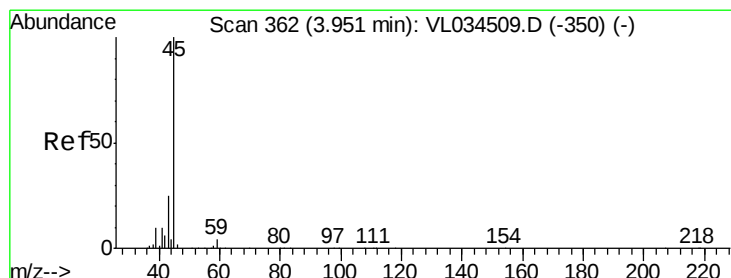
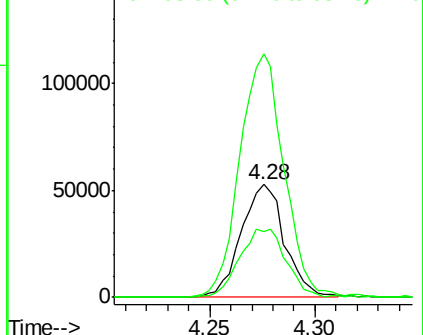
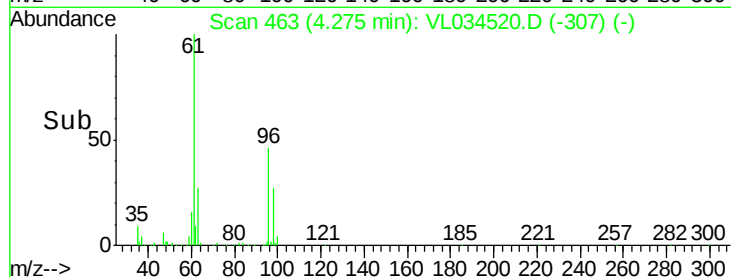
96 100

61 215.4 165.9 248.9

98 57.7 51.9 77.9



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: 0.422 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL034520.D

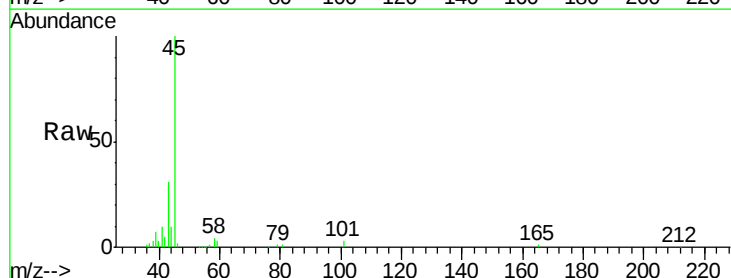
Acq: 30 Dec 2019 20:30

Tgt Ion: 45 Resp: 34543

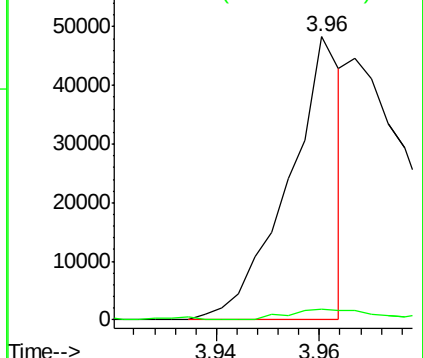
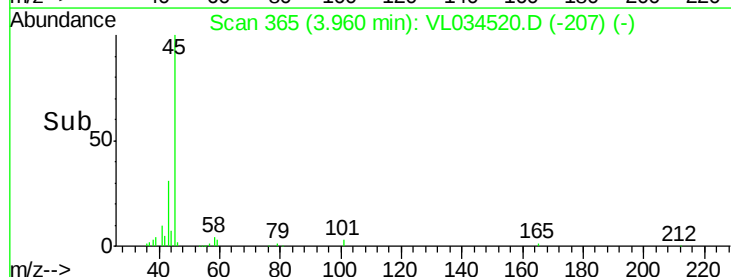
Ion Ratio Lower Upper

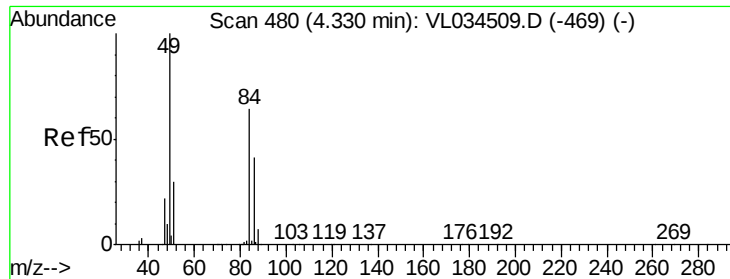
45 100

58 10.0 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

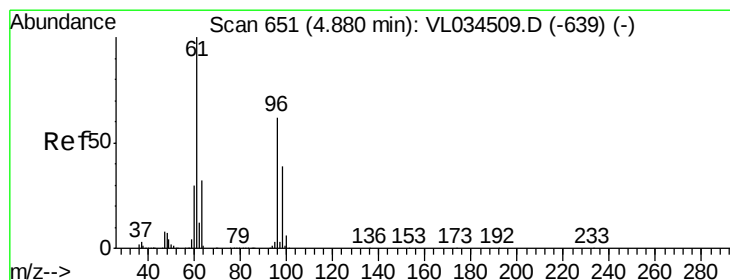
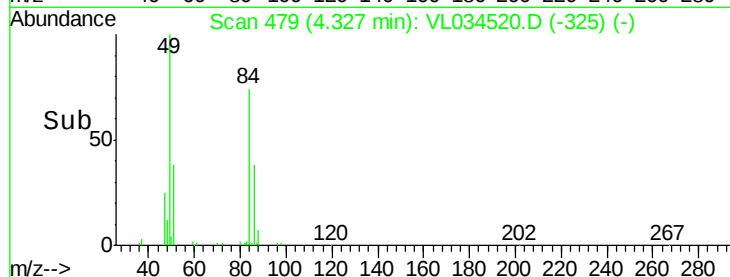
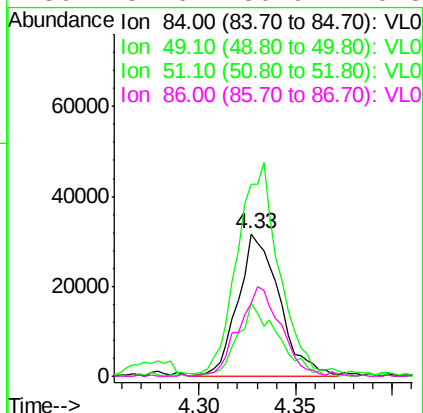
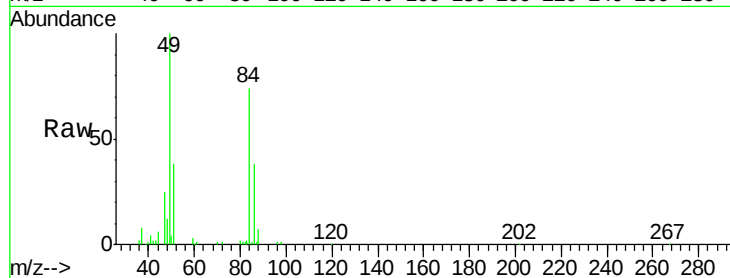




#20
Methylene Chloride
Concen: 0.947 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL034520.D
Acq: 30 Dec 2019 20:30

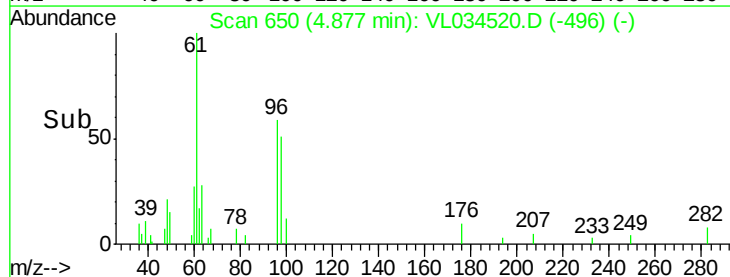
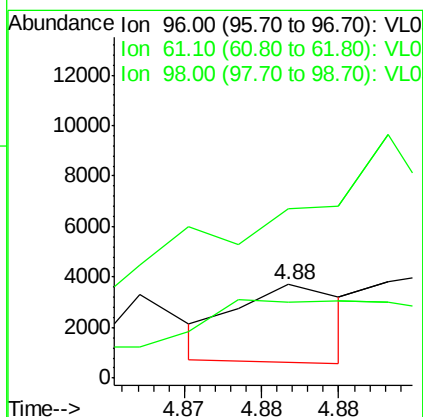
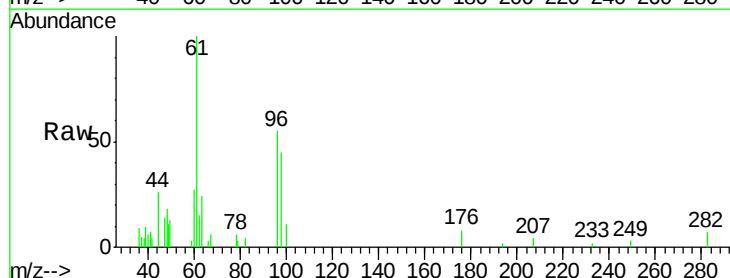
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDUP

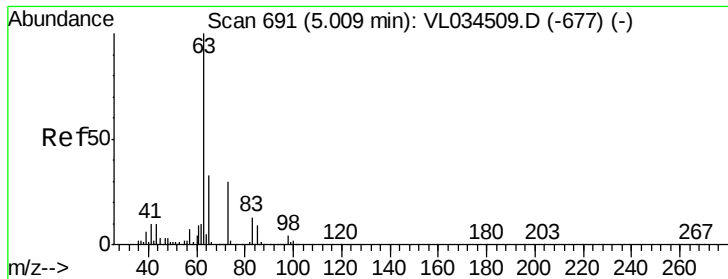
Tgt Ion:	84	Resp:	47163
Ion	Ratio	Lower	Upper
84	100		
49	132.7	124.4	186.6
51	51.0	37.0	55.6
86	51.6	50.9	76.3



#22
trans-1,2-Dichloroethene
Concen: 0.033 ppbv
RT: 4.88 min Scan# 650
Delta R.T. -0.00 min
Lab File: VL034520.D
Acq: 30 Dec 2019 20:30

Tgt Ion:	96	Resp:	1492
Ion	Ratio	Lower	Upper
96	100		
61	48.0	128.4	192.6#
98	76.3	50.6	75.8#





#24

1,1-Dichloroethane

Concen: 2.137 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL034520.D

Acq: 30 Dec 2019 20:30

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDUP

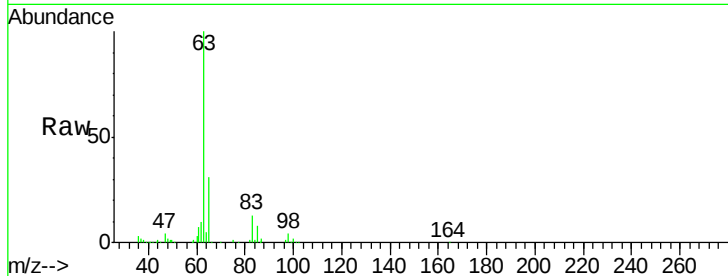
Tgt Ion: 63 Resp: 250905

Ion Ratio Lower Upper

63 100

98 4.4 2.1 6.3

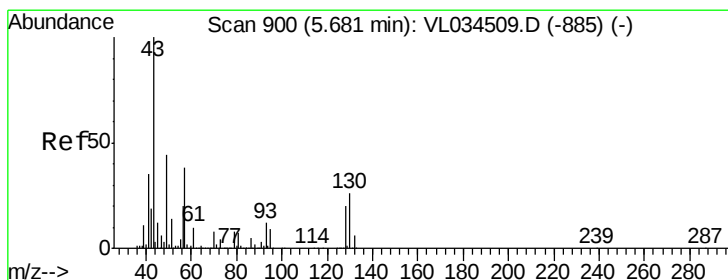
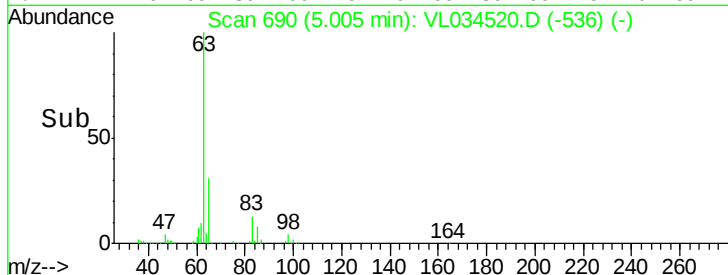
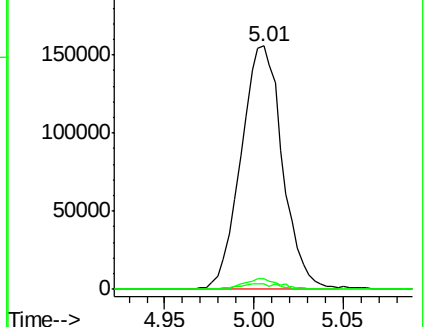
100 2.2 1.1 3.3



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: 0.118 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.01 min

Lab File: VL034520.D

Acq: 30 Dec 2019 20:30

Tgt Ion: 43 Resp: 23267

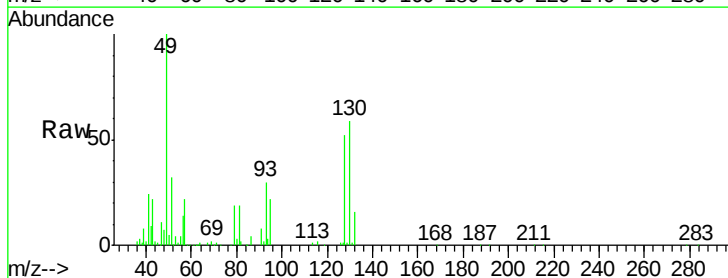
Ion Ratio Lower Upper

43 100

45 3.3 8.3 12.5#

61 1.7 7.8 11.6#

70 2.6 5.8 8.8#

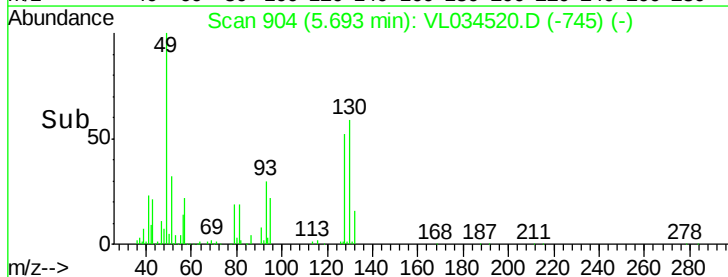
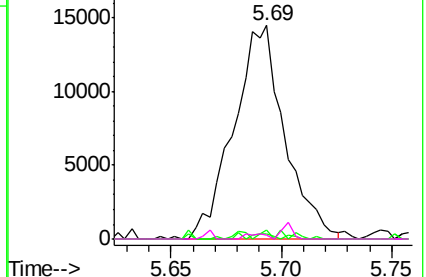


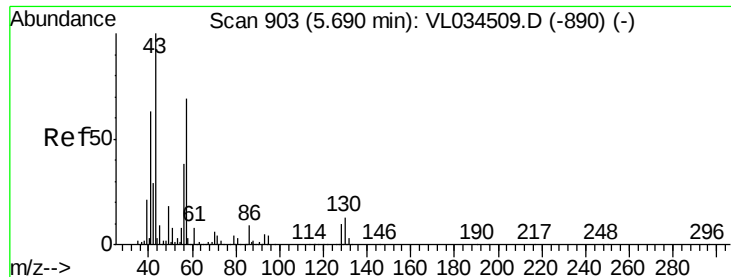
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

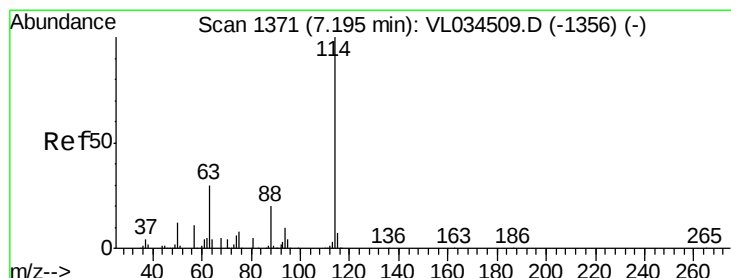
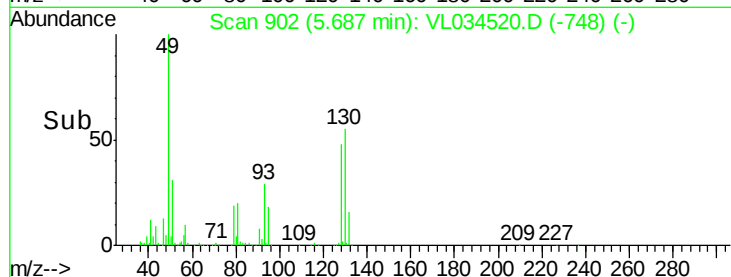
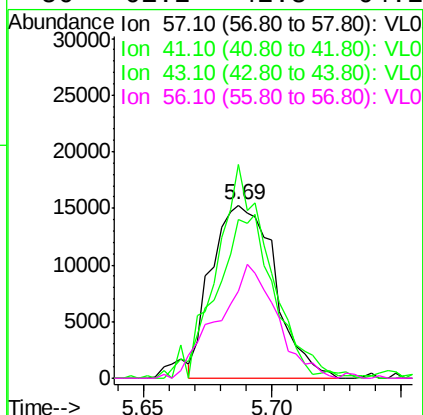
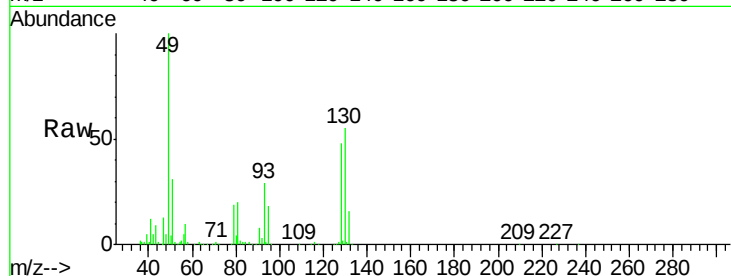




#26
Hexane
Concen: 0.315 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL034520.D
Acq: 30 Dec 2019 20:30

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDUP

Tgt Ion: 57 Resp: 26269
Ion Ratio Lower Upper
57 100
41 102.2 75.3 112.9
43 89.6 189.4 284.2#
56 61.2 42.8 64.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.00 min
Lab File: VL034520.D
Acq: 30 Dec 2019 20:30

Tgt Ion: 114 Resp: 1765606
Ion Ratio Lower Upper
114 100
63 29.9 24.1 36.1
88 19.6 15.7 23.5

